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Filing date: **08/20/2018**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

Proceeding	91225003
Party	Plaintiff Robert Bosch GmbH
Correspondence Address	THAD CHALOEMTIARANA PATTISHALL MCAULIFFE ET AL 200 S WACKER DR STE 2900 CHICAGO, IL 60606 UNITED STATES tc@pattishall.com, jae@pattishall.com, lkr@pattishall.com, dock- et@pattishall.com, cas@pattishall.com 312-554-8000
Submission	Plaintiff's Notice of Reliance
Filer's Name	Jessica A. Ekhoﬀ
Filer's email	jae@pattishall.com
Signature	/Jessica A. Ekhoﬀ/
Date	08/20/2018
Attachments	1 - Bosch Notice of Reliance.pdf(190272 bytes) Exhibit 1 Bosch 1912-13.pdf(225457 bytes) Exhibit 2 Bosch 1914-16.pdf(344585 bytes) Exhibit 3 Bosch 1917-18.pdf(227463 bytes) Exhibit 4 BOSCH 1952-54.pdf(331403 bytes) Exhibit 5 BOSCH 1955-57.pdf(298591 bytes) Exhibit 6 BOSCH 1958-60.pdf(303491 bytes) Exhibit 7 BOSCH 1961-63.pdf(331038 bytes) Exhibit 8 BOSCH 1964-66.pdf(348838 bytes) Exhibit 9 Reid Excerpts and Exhibits.pdf(5733348 bytes) Exhibit 10 Winston Reid Exhibit 21.pdf(907527 bytes) Exhibit 11 First Set of Requests for Admission.pdf(23343 bytes) Exhibit 12 Bosch 1715-16.pdf(310052 bytes) Exhibit 13 Bosch 1717.pdf(176284 bytes) Exhibit 14 Bosch 1718.pdf(129396 bytes) Exhibit 15 Bosch 1719.pdf(162914 bytes) Exhibit 16 Bosch 1720.pdf(40614 bytes) Exhibit 17 Bosch 1721-28.pdf(1920187 bytes) Exhibit 18 Bosch 1729-30.pdf(242807 bytes) Exhibit 19 Bosch 1731-32.pdf(164597 bytes) Exhibit 20 Bosch 1733-35.pdf(499192 bytes) Exhibit 21 Bosch 1736.pdf(156753 bytes) Exhibit 22 Bosch 1737.pdf(142437 bytes) Exhibit 23 Bosch 1738-39.pdf(173791 bytes) Exhibit 24 Bosch 1740.pdf(98030 bytes) Exhibit 25 Bosch 1741-42.pdf(236485 bytes) Exhibit 26 Bosch 1743-48.pdf(781738 bytes) Exhibit 27 Bosch 1749.pdf(118645 bytes) Exhibit 28 Bosch 1750-51.pdf(199865 bytes) Exhibit 29 Bosch 1752-54.pdf(505040 bytes) Exhibit 30 Bosch 1755-56.pdf(409033 bytes) Exhibit 31 Bosch 1757.pdf(115856 bytes) Exhibit 32 Bosch 1758.pdf(93186 bytes)

	Exhibit 33 Bosch 1759-60.pdf(254000 bytes) Exhibit 34 Bosch 1761-62.pdf(264166 bytes) Exhibit 35 Bosch 1763.pdf(223599 bytes) Exhibit 36 Bosch 1764-66.pdf(273438 bytes) Exhibit 37 Bosch 1767-68.pdf(227487 bytes) Exhibit 38 Bosch 1769.pdf(182326 bytes) Exhibit 39 Bosch 1919-21.pdf(290301 bytes) Exhibit 40 Bosch 1922-31.pdf(754354 bytes) Exhibit 41 Bosch 1932-39.pdf(589171 bytes) Exhibit 42 Bosch 1940-44.pdf(539017 bytes) Exhibit 43 Bosch 1945-51.pdf(449845 bytes)
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UNITED STATES PATENT AND TRADEMARK OFFICE
TRADEMARK TRIAL AND APPEAL BOARD



In the matter of Application Serial No. 86/403,265
Published in the *Official Gazette* of July 28, 2015 in International Class 9

Robert Bosch GmbH,)	
)	
Opposer,)	
)	
v.)	Opposition No. 91225003
)	
WGI Telecom Inc.)	
)	
Applicant.)	

ROBERT BOSCH GMBH’S NOTICE OF RELIANCE

Pursuant to 37 C.F.R. §§ 2.120 and 2.122, Opposer Robert Bosch GmbH (“Bosch”) intends to rely on the documents identified herein in support of its claims in this opposition proceeding against Applicant WGI Telecom, Inc.’s (“WGI”) application to register



(Serial No. 86/403,265) (“WGI Design Mark”) (“Application”).

BOSCH’S REGISTRATIONS FOR THE MAGNETO DESIGN MARK

1. Pursuant to 37 C.F.R. § 2.122(d) and TBMP § 704.03, Bosch intends to rely on Bosch Tr. Exs. 1-3, which are print-outs from the USPTO’s Trademark Electronic Search System (“TESS”) showing the current status and title of Bosch’s registrations covering its Magneto Design Mark. Bosch Tr. Exs. 1-3 are relevant generally to establish Bosch’s rights in its Magneto Design Mark.

THIRD-PARTY TRADEMARK REGISTRATIONS

2. Pursuant to 37 C.F.R. § 2.122(e) and TBMP § 704.03, Bosch intends to rely on Bosch Tr. Exs. 4-8, which are print-outs from the USPTO’s Trademark Electronic Search

System (“TESS”) featuring third-party trademark registrations. Bosch Tr. Exs. 4-8 are relevant generally to show that goods of the types sold by Bosch under its Magneto Design Mark and goods of the types sold by WGI under its WGI Design Mark are often covered by the same registration and are sold by the same entities. This evidence is relevant to Bosch’s argument that its goods bearing the Magneto Design Mark and WGI’s goods bearing the WGI Design Mark can emanate from the same source.

Exhibit No.	Reg. No.	Mark	Owner	Goods Similar to Those Sold Under the Parties’ Marks
Bosch Tr. Ex. 4	4,379,832	MATRICOM	Quantum Global Consulting LLC	tablet computer; automotive computer hardware; mobile phones; cellular phones; mobile computers
Bosch Tr. Ex. 5	4,672,945	NEPOSMART	Nepoware Corp.	tablet computer; home and office automation systems comprising wireless and wired controllers, controlled devices, and software for applications for lighting, HVAC, security, safety, and other home and office monitoring and control applications; mobile phones; cellular phones; mobile computers
Bosch Tr. Ex. 6	4,931,068	UVIA	Zhu Shenghua	computer hardware for use in automotive diagnostics; mobile phones
Bosch Tr. Ex. 7	5,037,626	CLEARFORCE	Synaptics Inc.	electronic controllers, input devices, and touch screen modules for computers, computing systems, mobile phones, electronic tablets, automotive products, consumer electronic

				systems, and software therefor
Bosch Tr. Ex. 8	5,038,725	G BOX	USA Wholesale Suppliers, LLC	automotive computer hardware; cellular phones; mobile computers; mobile phones; tablet computer

DISCOVERY DEPOSITION TRANSCRIPT OF WGI

3. Pursuant to 37 C.F.R. § 2.120(k)(1) and TBMP § 704.09, Bosch intends to rely on Bosch Tr. Ex. 9, which is comprised of excerpts from the transcript of the discovery deposition of WGI's 30(b)(6) witness, Winston Reid, and selected exhibits as indicated below:

7:6-22
9:1-13 and Ex. 1
12:1-25
15:11-13
15:16-18
18:6-8
18:12-14
19:10-20:6
20:19-24
21:8-10
25:12-15
27:3-22
28:4-8
29:16-30:19
33:19-24
67:6-17
68:4-6
68:10-20
70:19-22 and Ex. 11
71:2-5 and Ex. 12
71:8-10 and Ex. 13
71:13-22 and Ex. 14
71:25-72:3 and Ex. 15
72:6-9 and Ex. 16
72:17-73:2
74:6-9 and Ex. 18
74:12-15 and Ex. 19

74:18-21 and Ex. 20
83:18-84:14 and Ex. 21
85:23-86:1
91:17-20
92:7-14
94:23-95:23
97:19-24

INTERROGATORY ANSWERS

4. Pursuant to 37 C.F.R. § 2.120(k)(3)(i) and TBMP § 704.10, Bosch intends to rely on Bosch Tr. Ex. 10, which is WGI’s answers to Bosch’s Interrogatory Nos. 1-7 and 13. This exhibit is relevant generally to show that WGI did not have a bona fide intent to use the WGI Design Mark in connection with all goods identified in the Application at the time that it filed the Application, or at the time of this proceeding.

REQUESTS FOR ADMISSION

5. Pursuant to 37 C.F.R. § 2.120(k)(3)(i) and TBMP § 704.10, Bosch intends to rely on Bosch Tr. Ex. 11, which is Bosch’s First Set of Requests for Admission. This exhibit is relevant generally to show that WGI did not have a bona fide intent to use the WGI Design Mark in connection with all goods identified in the Application at the time that it filed the Application, or at the time of this proceeding and that there is a likelihood of confusion between the parties’ respective marks.

INTERNET MATERIALS

6. Pursuant to 37 C.F.R. § 2.122(e) and TBMP § 704.08(b), Bosch intends to rely on Bosch Tr. Exs. 12-38, which are website print-outs from online dictionaries and websites explaining what the Opposed Goods are and how they are used, as well as website print-outs establishing that these online dictionaries are reliable authorities and/or the equivalent of print dictionaries under TBMP § 1208.03. These exhibits are relevant generally to show that Bosch

sells goods under its Magneto Design Mark that are the same as, or highly similar to, the Opposed Goods that WGI sells under its WGI Design Mark, and, therefore, that a likelihood of confusion exists between the parties' respective marks.

Exhibit No.	Dictionary or Website	Word Defined	URL	Date Accessed
Bosch Tr. Ex. 12	Lifewire	cell phone	https://www.lifewire.com/what-is-a-cell-phone-577492	7/16/2018
Bosch Tr. Ex. 13	Techopedia	cellular phone	https://www.techopedia.com/definition/6413/cellular-phone	7/16/2018
Bosch Tr. Ex. 14	Dictionary.com	cell phone	https://www.dictionary.com/browse/cell-phone?s=t	7/24/2018
Bosch Tr. Ex. 33	Collins Dictionary	phone	https://www.collinsdictionary.com/us/dictionary/english/phone_1	7/24/2018
Bosch Tr. Ex. 19	The Connection	digital phone	https://internet.frontier.com/resources/resources/home-phone-information/analog-vs-digital-phone/	7/16/2018
Bosch Tr. Ex. 20	Nexogy	digital phone	http://www.nexogy.com/blog/digital-vs-voip-phone-systems	7/16/2018
Bosch Tr. Ex. 21	The Free Dictionary	digital phone	https://encyclopedia2.thefreedictionary.com/digital+phone	7/24/2018
Bosch Tr. Ex. 15	Infoplease	computer terminal	https://www.infoplease.com/encyclopedia/science-and-technology/computers-and-electrical-engineering/computers-and-computing/computer-terminal	7/16/2018
Bosch Tr. Ex. 17	The Free Dictionary	computer terminal	https://encyclopedia.thefreedictionary.com/computer+terminal	7/24/2018
Bosch Tr. Ex. 18	Collins Dictionary	computer	https://www.collinsdictionary.com/us/dictionary/english/computer	7/24/2018
Bosch Tr. Ex. 16	Techopedia	terminal	https://www.techopedia.com/definition/3054/terminal	7/16/2018
Bosch Tr. Ex. 38	Merriam-Webster	terminal	https://www.merriam-webster.com/dictionary/terminal	7/24/2018

Bosch Tr. Ex. 25	Lifewire	modem	https://www.lifewire.com/what-is-a-modem-817861	7/16/2018
Bosch Tr. Ex. 26	How-To Geek	modem	https://www.howtogeek.com/234233/whats-the-difference-between-a-modem-and-a-router/	7/16/2018
Bosch Tr. Ex. 27	Dictionary.com	modem	https://www.dictionary.com/browse/modem?s=t	7/24/2018
Bosch Tr. Ex. 28	Merriam-Webster	modem	https://www.merriam-webster.com/dictionary/modem	7/24/2018
Bosch Tr. Ex. 29	Lifewire	netbook	https://www.lifewire.com/what-is-a-netbook-832315	7/16/2018
Bosch Tr. Ex. 30	Lenovo.com	netbook	https://www.lenovo.com/us/en/faqs/laptop-faqs/what-is-a-netbook/	7/16/2018
Bosch Tr. Ex. 31	Dictionary.com	netbook	https://www.dictionary.com/browse/netbook?s=t	7/24/2018
Bosch Tr. Ex. 32	Cambridge English Dictionary	netbook	https://dictionary.cambridge.org/us/dictionary/english/netbook	7/24/2018
Bosch Tr. Ex. 34	PC Magazine	tablet computer	https://www.pcmag.com/encyclopedia/term/52520/tablet-computer	7/16/2018
Bosch Tr. Ex. 35	Search Mobile Computing	tablet	https://searchmobilecomputing.techtarget.com/definition/tablet-PC?vgnextfmt=print	7/16/2018
Bosch Tr. Ex. 36	Cambridge English Dictionary	tablet	https://dictionary.cambridge.org/us/dictionary/english/tablet?q=tablet%2Bcomputer	7/24/2018
Bosch Tr. Ex. 37	Techopedia	n/a	https://www.techopedia.com/dictionary	7/24/2018
Bosch Tr. Ex. 22	How-To Geek	n/a	https://www.howtogeek.com/about/	7/24/2018
Bosch Tr. Ex. 23	Infoplease	n/a	https://www.infoplease.com/about-infopleasecom	7/24/2018
Bosch Tr. Ex. 24	Lifewire	n/a	https://www.lifewire.com/about-us#AboutUs	7/24/2018

7. Pursuant to 37 C.F.R. § 2.122(e) and TBMP § 704.08(b), Bosch intends to rely on Bosch Tr. Exs. 39-43, which are website print-outs from the websites of companies that sell both the types of goods Bosch sells under its Magneto Design Mark, and the Opposed Goods that WGI sells under its WGI Design Mark. These exhibits are relevant generally to show that the parties' products are sold to the same types of customers through the same channels of trade, and therefore, that a likelihood of confusion exists between the parties' respective marks.

Exhibit No.	Seller	Goods Similar to Those Sold Under the Parties' Marks	URL(s)	Date Accessed
Bosch Tr. Ex. 39	Walmart	automotive diagnostic products; cell phones	https://www.walmart.com/c/kp/car-diagnostic-tools https://www.walmart.com/cp/cell-phones/1105910	7/31/2018
Bosch Tr. Ex. 40	Best Buy	intrusion system components; cell phones	https://www.bestbuy.com/site/home-e-alarms-sensors/home-security-systems/pcmcat1515445788580.c?id=pcmcat1515445788580 https://www.bestbuy.com/site/mobile-cell-phones/iphone/pcmcat30520005000.c?id=pcmcat305200050000	7/31/2018
Bosch Tr. Ex. 41	123 Security Products	alarm keypads; modems	https://www.123securityproducts.com/b5512-c-920.html?gclid=Cj0KCQjwv-DaBRCCcARIsAI9sba9BQ0dcHGy7rLL7gVjoc_NTdBj34uViESKQe9P9ikD3r25iYfHx0-AaAqLKEALw_wcB https://www.123securityproducts.com/d7212gv4k1w.html?gclid=Cj0KCQjwv-	7/31/2018

			DaBRCCaRIIsAI9sba_IPooSfuknw gqueH1pxE9RVjku1dmedKToTy6 ubTU0YmaGSaPF6iUaAvRBEAL w_wcB https://www.123securityproducts.com/nsearch/?q=modem&cat	
Bosch Tr. Ex. 42	Unique POS	alarm keypads; cell phones	https://www.uniquepos.com/Bosch-Kit-B5512-B10-Cx4010-B920-p/b5512-c-920.htm?gclid=Cj0KCQjwv-DaBRCCaRIIsAI9sba8IwpCXP769FCBlk0yvjNWCzMMDF0MyLIu03MVDWMKgHnBytyjwHSIaAiLHEALw_wcB&click=71 https://www.uniquepos.com/Mobile-Computer-s/332.htm	7/31/2018
Bosch Tr. Ex. 43	JMAC	access control readers; alarm keypads; telephone interfaces; modems	https://www.jmac.com/Bosch_Security_ARD_SER10_WI_p/BOSCH-ARD-SER10-WI.htm?gclid=Cj0KCQjwv-DaBRCCaRIIsAI9sba-dbV2U_-dkXxctpm1KmZQD0RNwi_ks795JoKCQhu2GrMLWZPIIshkaAu9GEALw_wcB https://www.jmac.com/SearchResults.asp?search=modem	7/31/2018

[signature line on next page]

Respectfully submitted,

PATTISHALL, McAULIFFE, NEWBURY,
HILLIARD & GERALDSON LLP

Dated: August 20, 2018

By: Jessica A. Ekhoff

Thad Chalomentiarana
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(312) 554-8000

Attorneys for Opposer, Robert Bosch GmbH

CERTIFICATE OF SERVICE

I, Jessica A. Ekhoﬀ, certify that a true and correct copy of the foregoing was served upon Winston Reid by email to wreid@wgitecom.com on August 20, 2018.

/Jessica A. Ekhoﬀ /

BOSCH TRIAL

EXHIBIT 1



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Goods and Services

IC 007. US 013 019 021 023 031 034 035. G & S: Electric apparatus for the care of gardens, namely, hedge scissors, lawn mowers, grass shears, and grass trimmers; shredders; pumps, namely, electric pumps, hydraulic pumps, and oil pumps for land vehicles; and high pressure cleaners, namely, multi-purpose high pressure washers

IC 009. US 021 023 026 036 038. G & S: Computers for controlling irrigation systems; electric and electronic measuring tools, namely, those using laser technology, especially for measuring distances, heights, angles, and gradients; and detectors for detecting metal and electric wires

IC 011. US 013 021 023 031 034. G & S: Water sprinklers, namely, irrigation sprinklers (automatic)

Mark Drawing Code

(2) DESIGN ONLY

Design Search Code

26.01.01 - Circles as carriers or as single line borders
26.01.06 - Circles, semi; Semi-circles
26.11.02 - Plain single line rectangles; Rectangles (single line)

Serial Number

79108981

Filing Date

December 14, 2011

Current Basis

66A

Original Filing Basis

66A

Published for Opposition

January 22, 2013

Registration Number

4315252

International Registration Number

1106343

Registration Date April 9, 2013

Owner (REGISTRANT) Robert Bosch GmbH Private Limited Company FED REP GERMANY Robert-Bosch-Platz 1 70839 Gerlingen-Schillerhoehe FED REP GERMANY

Description of Mark Color is not claimed as a feature of the mark.

Type of Mark TRADEMARK

Register PRINCIPAL

Live/Dead Indicator LIVE

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EXHIBIT 2



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Goods and Services

IC 007. US 013 019 021 023 031 034 035. G & S: Motor starters, electric generators, valves being parts of machines, lambda probes, sparking plug connectors, speed governors for machines; hydraulic pumps, hydraulic motors for machines, hydraulic valves actuators, hydraulic cylinders for machines, hydraulic reservoirs for machines, hydraulic filters for machines; pneumatic valves actuators, power steering systems comprised of a steering cylinder, drive pinion, rack, torsion bar, steering spindle, control port, rotary distributor, control bushing, return line, oil reservoir, pressure-and-flow-limiting valve, pressure line and vane-type pump; compressed-air machines components, namely, compressed-air brakes; compressed-air machine devices, namely, air compressors, compressed-air reservoirs, thermostatic control valves for machines, braking valves; exhaust-gas turbochargers for machines; servo-drives for motors and drive spindles for motors; material provision and management systems comprised of conveyer belts, conveying chains, vibratory feeders for handling bulk quantities of materials, tilting devices, programmable electrical grippers for conveying machines and programmable electrical single-arm industrial robots; packaging machines; electric power tools and their plug-ins, namely, tile saws, burrs, countersinks, hammer drills, and hammer drives; starting devices, namely, starters for internal combustion engines

IC 009. US 021 023 026 036 038. G & S: Processing, transmitting, receiving and indicating signals, data, images and sounds, namely, audio recorders and digital media receivers; electric and electromagnetic data carriers; video cameras, monitors, loudspeakers, antennas for devices, namely, GPS navigation devices; LSN peripherals, namely, smoke detectors, intrusion detectors, alarm sounders and strobes, security interface modules, remote fire indicators, power supplies and security system arming devices; control modules, expansion modules, switches, and programmers for location and navigation for installation in land vehicles, aircraft, and marine craft; high frequency generators, power supply devices, namely, power supplies, electric filters, semiconductor components, namely, semiconductor chips; optoelectronic components, namely, optical cables and filters for optical devices; printed, etched and casted circuits, integrated circuits, relays, fuses, leads for electric, electronic and optical signals, cable connections, electric switches, electronic regulators for headlamp beam adjustment, electric motors, sensors, detectors, switching devices, namely, automatic switching apparatus for telecommunication; switch boxes, solar cells and solar generators; analyzers for motor vehicles for exhaust gas analysis, soot particle analysis, brake function; diagnostic instruments and equipment, namely, motor measurement modules for motor testers, emissions analysis, and for simulations; engine testers and workshop test equipment benches for engine system testing, diagnostic analysis, emissions analysis, battery service, brake testing, diesel system testing, wheel alignment, air condition

service, tire changing, wheel balancing; automotive lifts for injection pumps, starters and generators; batteries, charging devices, namely, battery chargers, battery testers, amplifiers, transformers and cable drums

IC 011. US 013 021 023 031 034. G & S: Automotive headlamps and lights, namely, lights for vehicles; ventilation systems; electric egg-boilers; gas heaters

IC 012. US 019 021 023 031 035 044. G & S: Electric motors for land vehicles; restraining systems for installation in motor vehicles, namely, belt tensioners, airbags and sensors; gearbox controllers for land vehicles; vehicle dynamics control systems comprised of brakes for land vehicles and aircraft

IC 020. US 002 013 022 025 032 050. G & S: Furniture, in particular kitchen and bathroom furniture, wash stands, and mirrored wardrobes

IC 036. US 100 101 102. G & S: Insurance brokerage services

IC 037. US 100 103 106. G & S: Installation, maintenance and repair of parts and accessories of motor vehicles, car radio systems, radio-telephones, power hand tools, workshop appliances and devices, power generators, household and kitchen appliances, radio and television systems, sanitary devices, heating and air-conditioning systems and furniture; technical support services, namely, providing technical advice in the field of motor vehicle engine overhauls and repair in motor sports organizations

IC 038. US 100 101 104. G & S: Broadcasting of cable television, television, and radio programs; transmission of sound, data and images via satellites

IC 039. US 100 105. G & S: Organization of sightseeing tours

IC 041. US 100 101 107. G & S: Training and conducting classes, seminars, conferences, and workshops of third parties in electrical technology and electronics

IC 042. US 100 101. G & S: Design and development, surveillance of buildings and installations; research on building and construction planning; creation and installation of computer programs for data processing

Mark Drawing Code (2) DESIGN ONLY

Design Search Code 26.01.01 - Circles as carriers or as single line borders

Serial Number 79115880

Filing Date July 3, 2012

Current Basis 66A

Original Filing Basis 66A

Published for Opposition July 23, 2013

Registration Number **4412647**

International Registration Number 0675706

Registration Date October 8, 2013

Owner (REGISTRANT) Robert Bosch GmbH private limited company FED REP GERMANY 70469 Stuttgart FED REP GERMANY

Attorney of Record Thad Chaloeintiarana

Prior Registrations 0633563;0634326;2051819

Description of Mark Color is not claimed as a feature of the mark. The mark consists of a cross section of a magneto ignition device, arranged in a solenoid, enclosed by a circle.

Type of Mark TRADEMARK. SERVICE MARK
Register PRINCIPAL
Live/Dead Indicator LIVE

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BOSCH TRIAL

EXHIBIT 3



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Word Mark	BOSCH SERVICE
Goods and Services	IC 037. US 100 103 106. G & S: Installation, maintenance and repair of components and accessories for motor vehicles, car radio assemblies, car telephones, car antennas, navigation devices, walkie-talkies, hand-held machine tools, workshop equipment and devices, power generators, house and kitchen appliances, radio and television installation and apparatus, sanitary installations, repair of motor vehicles during motor-sport events
Mark Drawing Code	(3) DESIGN PLUS WORDS, LETTERS, AND/OR NUMBERS
Design Search Code	26.01.02 - Circles, plain single line; Plain single line circles 26.01.12 - Circles with bars, bands and lines 26.11.03 - Incomplete rectangles; Rectangles (incomplete) 26.11.21 - Rectangles that are completely or partially shaded
Serial Number	75907736
Filing Date	February 3, 2000
Current Basis	44E
Original Filing Basis	44E
Published for Opposition	December 12, 2000
Registration Number	2433397
Registration Date	March 6, 2001
Owner	(REGISTRANT) Robert Bosch GmbH CORPORATION FED REP GERMANY POSTFACH 30 02 20 70442 STUTT GART FED REP GERMANY
Attorney of Record	Thilo C. Agthe

Prior Registrations 1345068;1572397;AND OTHERS
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Type of Mark SERVICE MARK
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Affidavit Text SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20110304.
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EXHIBIT 4

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Matricom

Word Mark MATRICOM

Goods and Services IC 009. US 021 023 026 036 038. G & S: Computer hardware; Computer hardware and computer peripherals; Computer operating systems; Computer operating software; Internet radios; Internet-ready televisions; IP (Internet protocol) cameras; Digital media streaming devices; Television receivers; TV internet receiver; Televisions; Tablet computer; Mobile phones; VOIP phones; VOIP servers; Cellular phones; GPS navigation device; Automotive computer hardware; Mobile computers. FIRST USE: 20100327. FIRST USE IN COMMERCE: 20100327

Standard Characters Claimed

Mark Drawing Code (4) STANDARD CHARACTER MARK

Serial Number 85809387

Filing Date December 21, 2012

Current Basis 1A

Original Filing Basis 1A

Published for Opposition May 21, 2013

Registration Number 4379832

Registration Date August 6, 2013

Owner (REGISTRANT) USA Wholesale Suppliers, LLC LIMITED LIABILITY COMPANY FLORIDA Unit F 952 Lake Destiny Rd Altamonte Springs FLORIDA 327146962

(LAST LISTED OWNER) QUANTUM GLOBAL CONSULTING LLC LIMITED LIABILITY COMPANY FLORIDA 15705 NW 13 AVENUE MIAMI GARDENS FLORIDA 33169

Assignment Recorded ASSIGNMENT RECORDED
Type of Mark TRADEMARK
Register PRINCIPAL
Live/Dead Indicator LIVE

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| [HOME](#) | [SITE INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [HELP](#) | [PRIVACY POLICY](#)



United States Patent and Trademark Office

[Home](#) | [Site Index](#) | [Search](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)[Assignments on the Web](#) > [Trademark Query](#)

Trademark Assignment Abstract of Title

Total Assignments: 1

Serial #: [85809387](#)

Filing Dt: 12/21/2012

Reg #: [4379832](#)

Reg. Dt: 08/06/2013

Registrant: USA Wholesale Suppliers, LLC

Mark: MATRICOM

Assignment: 1

Reel/Frame: [6239/0938](#)

Recorded: 01/02/2018

Pages: 4

Conveyance: ASSIGNS THE ENTIRE INTEREST

Assignor: [USA WHOLESAL SUPPLIERS LLC](#)

Exec Dt: 12/01/2017

Entity Type: LIMITED LIABILITY COMPANY

Citizenship: FLORIDA

Assignee: [QUANTUM GLOBAL CONSULTING LLC](#)

15705 NW 13 AVENUE

MIAMI GARDENS, FLORIDA 33169

Entity Type: LIMITED LIABILITY COMPANY

Citizenship: FLORIDA

Correspondent: BRYAN J RUSH ESQ., TRIPP SCOTT PA

110 SE SIXTH STREET, 15 FLOOR

FORT LAUDERDALE, FL 33301

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BOSCH TRIAL

EXHIBIT 5

**United States Patent and Trademark Office**
[Home](#) | [Site Index](#) | [Search](#) | [FAQ](#) | [Glossary](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)
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Record 1 out of 1
[TSDR](#) | [ASSIGN Status](#) | [TTAB Status](#) (Use the "Back" button of the Internet Browser to return to TESS)

NEPOSMART

Word Mark NEPOSMART

Goods and Services IC 009. US 021 023 026 036 038. G & S: Computer hardware; computer hardware and computer peripherals; computer operating systems; computer operating software; Internet radios; Internet-ready televisions; IP (Internet protocol) cameras; digital media streaming devices; television receivers; internet television receivers; televisions; tablet computer; mobile phones; VOIP phones; VOIP servers; cellular phones; GPS navigation device; automotive computer hardware; mobile computers; secure digital (SD) memory cards; home and office automation systems comprising wireless and wired controllers, controlled devices, and software for applications for lighting, HVAC, security, safety and other home and office monitoring and control applications. FIRST USE: 20140807. FIRST USE IN COMMERCE: 20140807

Standard Characters Claimed

Mark Drawing Code (4) STANDARD CHARACTER MARK

Serial Number 86166335**Filing Date** January 15, 2014**Current Basis** 1A**Original Filing Basis** 1B**Published for Opposition** June 3, 2014**Registration Number** 4672945**Registration Date** January 13, 2015**Owner** (REGISTRANT) Nepoware Corporation CORPORATION WASHINGTON 2647 79th Avenue NE Medina WASHINGTON 98039

Attorney of Record Matthew E. Moersfelder
Type of Mark TRADEMARK
Register PRINCIPAL
Live/Dead Indicator LIVE

[TESS HOME](#) [NEW USER](#) [STRUCTURED](#) [FREE FORM](#) [BROWSE DICT](#) [SEARCH OG](#) [TOP](#) [HELP](#)

[HOME](#) | [SITE INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [HELP](#) | [PRIVACY POLICY](#)



No assignment has been recorded at the USPTO

For Serial Number: 86166335

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[HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

BOSCH TRIAL

EXHIBIT 6

**United States Patent and Trademark Office**
[Home](#) | [Site Index](#) | [Search](#) | [FAQ](#) | [Glossary](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)
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Word Mark UVIA**Translations** The wording "UVIA" has no meaning in a foreign language.

Goods and Services IC 009. US 021 023 026 036 038. G & S: Digital media streaming devices; Smart TV media streaming playing device; Battery chargers; Computer networking hardware; computer networking switches, routers and hubs; Mobile phones; computer hardware for use in automotive diagnostics; IP (Internet protocol) cameras; Smart watches comprised primarily of a wristwatch and also featuring software and display screens for viewing; Car DVR; Internet radios; Bags adapted for laptops; Light emitting diodes (LEDs); Portable media players; Earphones; Covers for telephone receivers not made of paper; Global Positioning System apparatus, namely, GPS navigation device; USB cables; Loudspeakers; Slide projectors. FIRST USE: 20050808. FIRST USE IN COMMERCE: 20050808

Mark Drawing Code (5) WORDS, LETTERS, AND/OR NUMBERS IN STYLIZED FORM**Serial Number** 86655815**Filing Date** June 9, 2015**Current Basis** 1A**Original Filing Basis** 1A**Published for Opposition** January 19, 2016**Registration Number** 4931068**Registration Date** April 5, 2016**Owner** (REGISTRANT) Zhu Shenghua INDIVIDUAL CHINA FuHe Town, ZengDu District, Hubei Prov. SuiZhou CHINA 441328**Attorney of Record** Kao H. Lu

Description of Mark Color is not claimed as a feature of the mark. The mark consists of the stylized wording "UVIA".
Type of Mark TRADEMARK
Register PRINCIPAL
Live/Dead Indicator LIVE

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[HOME](#) | [SITE INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [HELP](#) | [PRIVACY POLICY](#)



No assignment has been recorded at the USPTO

For Serial Number: **86655815**

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[HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

BOSCH TRIAL

EXHIBIT 7



United States Patent and Trademark Office

[Home](#) | [Site Index](#) | [Search](#) | [FAQ](#) | [Glossary](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)

Trademarks > Trademark Electronic Search System (TESS)

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[TSDR](#) | [ASSIGN Status](#) | [TTAB Status](#) (Use the "Back" button of the Internet Browser to return to TESS)

ClearForce

Word Mark	CLEARFORCE
Goods and Services	IC 009. US 021 023 026 036 038. G & S: Electronic circuitry, integrated circuits and circuit boards; electronic controllers, input devices, and touch screen modules for computers, computing systems, mobile phones, electronic tablets, automotive products, consumer electronic systems, and software therefor; and sensors for use in detecting user input and for use in controlling computers, computing systems, mobile phones, electronic tablets, automotive products, consumer electronic systems, and software therefor. FIRST USE: 20160106. FIRST USE IN COMMERCE: 20160106
Standard Characters Claimed	
Mark Drawing Code	(4) STANDARD CHARACTER MARK
Serial Number	86667219
Filing Date	June 18, 2015
Current Basis	1A
Original Filing Basis	1B
Published for Opposition	November 3, 2015
Registration Number	5037626
International Registration Number	1275474
Registration Date	September 6, 2016
Owner	(REGISTRANT) Synaptics Incorporated CORPORATION DELAWARE 1251 McKay Drive San Jose CALIFORNIA 95131

Attorney of Record Robert P. Lord
Prior Registrations 3440547;4720506
Type of Mark TRADEMARK
Register PRINCIPAL
Live/Dead Indicator LIVE

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[HOME](#) | [SITE INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [HELP](#) | [PRIVACY POLICY](#)



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[Home](#) | [Site Index](#) | [Search](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)[Assignments on the Web](#) > [Trademark Query](#)

Trademark Assignment Abstract of Title

Total Assignments: 1

Serial #: [86667219](#)

Filing Dt: 06/18/2015

Reg #: [5037626](#)

Reg. Dt: 09/06/2016

Registrant: Synaptics Incorporated

Mark: CLEARFORCE

Assignment: 1

Reel/Frame: [6163/0689](#)

Recorded: 09/27/2017

Pages: 11

Conveyance: SECURITY INTEREST

Assignor: [SYNAPTICS INCORPORATED](#)

Exec Dt: 09/27/2017

Entity Type: CORPORATION

Citizenship: DELAWARE

Entity Type: NATIONAL BANKING
ASSOCIATION

Citizenship: UNITED STATES

Assignee: [WELLS FARGO BANK, NATIONAL ASSOCIATION](#)

1525 WEST W.T. HARRIS BLVD.

MAC D1109-019

CHARLOTTE, NORTH CAROLINA 28262

Correspondent: ORRICK, HERRINGTON & SUTCLIFFE LLP

2050 MAIN STREET, SUITE 1100

IP PROSECUTION DEPARTMENT

IRVINE, CA 92614-8255

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[HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

BOSCH TRIAL

EXHIBIT 8

**United States Patent and Trademark Office**[Home](#) | [Site Index](#) | [Search](#) | [FAQ](#) | [Glossary](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)**Trademarks > Trademark Electronic Search System (TESS)**

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Word Mark G BOX

Goods and Services IC 009. US 021 023 026 036 038. G & S: Cellular phones; Computer hardware; Computer hardware and computer peripherals; Computer operating systems; Digital media streaming devices; GPS navigation device; Internet radios; Internet-ready televisions; IP (Internet protocol) cameras; Mobile computers; Mobile phones; Tablet computer; Television receivers; Televisions; Computer operating software; VOIP phones; VOIP servers; Automotive computer hardware. FIRST USE: 20120801. FIRST USE IN COMMERCE: 20120801

Standard Characters Claimed

Mark Drawing Code (4) STANDARD CHARACTER MARK

Serial Number 86348240

Filing Date July 25, 2014

Current Basis 1A

Original Filing Basis 1A

Published for Opposition June 28, 2016

Registration Number 5038725

Registration Date September 13, 2016

Owner (REGISTRANT) USA WHOLESALE SUPPLIERS, LLC. LIMITED LIABILITY COMPANY FLORIDA 145 N Magnolia Ave Orlando FLORIDA 32801

Type of Mark TRADEMARK

Register PRINCIPAL

**Live/Dead
Indicator**

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[STRUCTURED](#)

[FREE FORM](#)

[BROWSE DICT](#)

[SEARCH OG](#)

[TOP](#)

[HELP](#)

[| HOME](#) | [SITE INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [HELP](#) | [PRIVACY POLICY](#)



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For Serial Number: 86348240

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[HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

BOSCH TRIAL

EXHIBIT 9

1 UNITED STATES PATENT AND TRADEMARK OFFICE
2 TRADEMARK TRIAL AND APPEAL BOARD

3 In the matter of Application Serial No. 86/403,265
4 Robert Bosch GmbH,
5 Opposer,

6 vs.

7 WGI Telecom Inc.,
8 Applicant.

-----/

9
10 One East Broward Boulevard
Suite 1101

11 Fort Lauderdale, Florida 33301
12 Friday, 10:22 a.m. - 1:36 p.m.
May 4, 2018

13
14 30(b)(6) VIDEOCONFERENCE DEPOSITION OF
15 WGI TELECOM INC.
16 BY: WINSTON REID
17

18 Taken on behalf of the Opposer before
19 Gina Rodriguez, RPR, CRR, Notary Public in and for
20 the State of Florida at Large, pursuant to Notice
21 of Taking Deposition filed in the above cause.
22
23
24
25

1 Q. Now, is there any reason that you may not
2 be able to give a complete and truthful testimony at
3 the deposition today such as taking any medication
4 that may impair your memory?

5 A. No.

6 Q. Okay. Now, throughout this deposition, I
7 am going to be referring to the WGI Design Mark.
8 When I use that term, I am referring to the trademark
9 that's covered by WGI Telecom's Application Number
10 86/403,265.

11 Do you understand what I mean by the WGI
12 Design Mark?

13 A. Yes.

14 Q. Great.

15 I will also be referring to Bosch's
16 Magneto Design Mark. When I use that term, I'm
17 referring to the trademark covered by Bosch's
18 Registration Numbers 2,051,819, and 4,315,252 and
19 4,412,647.

20 Do you understand what I mean by Bosch's
21 Magneto Design Mark?

22 A. Yes.

23 Q. All right.

24 MS. EKHOFF: Gina, can you please hand the
25 witness Exhibit 1.

1 (Thereupon, marked as Exhibit 1.)

2 BY MS. EKHOFF:

3 Q. Mr. Reid, the court reporter has handed you
4 Exhibit 1. If you will see, in the bottom right-hand
5 corner of each page, there is a designation that
6 begins with the word "Bosch" that has a series of
7 zeros and a number at the end. Those numbers are
8 called "Bates numbers," and they're used to make it
9 easier to identify the document. So I will be
10 referring to those Bates numbers.

11 A. Okay.

12 Q. Okay. So this exhibit that you're looking
13 at, Exhibit 1, is Bates numbered Bosch 20 through 24.

14 It is entitled the First Revised Rule
15 30(b)(6) deposition of WGI Telecom Inc.

16 A. Okay.

17 Q. Do you recognize this document?

18 A. Yes.

19 Q. Do you recall being served with this
20 document?

21 A. Yes.

22 Q. All right. Please take a look at the list
23 of deposition topics. They start on page 3. This is
24 Bates No. Bosch 22. Do you see that list?

25 A. Yes.

1 Q. Are you able to testify on behalf of WGI on
2 all of the topics identified in Exhibit 1?

3 A. Yes.

4 Q. Yes?

5 A. Yes.

6 Q. Is there anyone else at WGI that has
7 greater knowledge than you do about any of the topics
8 identified in Exhibit 1?

9 A. No.

10 Q. Okay. And you understand that you are
11 testifying today as a corporate representative of
12 WGI?

13 A. Yes.

14 Q. Are you represented by an attorney today?

15 A. I'm sorry?

16 Q. Are you being represented by an attorney
17 today?

18 A. No. I can't afford one.

19 Q. After you received the deposition notice,
20 what did you do to prepare for this deposition?

21 A. Nothing.

22 Q. You didn't do anything to prepare for this
23 deposition?

24 A. No. We don't have the answers to the
25 questions, so I read it, but, I mean, what am I going

1 Q. Who are the officers of WGI?

2 A. At the moment, just myself.

3 Q. And who owns WGI?

4 A. I do.

5 Q. How many employees does WGI have?

6 A. Right now, we have seven.

7 Q. And how long has WGI been in operation?

8 A. Since 2002.

9 Q. And what is your current position at WGI?

10 A. I am the owner.

11 Q. How long have you been in that position?

12 Since the founding?

13 A. Yes.

14 Q. What are your responsibilities as the owner
15 of WGI?

16 A. Mainly product development.

17 Q. I'm sorry, can you repeat that?

18 A. Mainly product development.

19 Q. Okay. Do you do anything other than
20 product development?

21 A. I mean, small businesses, you wear many
22 hats, so . . . But my focus is mainly on product
23 development, but that's -- I touch everything:
24 Marketing, sales, HR. But the focus is just the
25 product development. That's my focus.

1 other products, offering any other services at that
2 time?

3 A. Yes, we do offer entire lines, mobile
4 phones, MiFi devices, CPEs, USB dongles, ADSL, VDSL,
5 GPON products.

6 Q. And all of those products were offered in
7 the United States as of September 23rd?

8 A. No. The United States and outside the
9 United States. Majority of our business is outside
10 of the United States.

11 Q. What percentage of your business is done
12 outside of the United States?

13 A. Probably 90.

14 Q. Did you say 90, nine zero?

15 A. Yeah, probably around, yeah, correct.

16 Q. So about 10 percent of WGI's business is
17 done within the United States?

18 A. Yeah, approximately, yes.

19 Q. Are there any specific countries in which
20 WGI does most of its business outside of the United
21 States?

22 A. We do all over. We do Africa -- I mean,
23 Rwanda, we do Ghana, we do Jamaica, we do -- I mean,
24 do you want me to list all of them? That's a lot. I
25 mean, our customers -- our customers are mobile

1 a mobile operator in the United States?

2 A. That was a long time ago. I can't off the
3 top of my head, but that's a long time. We sold in
4 Canada. We're selling right now in Canada, but in
5 the United States per se, it's been a while.

6 Q. Have you sold to a mobile operator in the
7 United States in the past five years?

8 A. Probably not.

9 Q. Have you sold to a mobile operator in the
10 United States in the past ten years?

11 A. Probably, yes. Yes.

12 Q. Have you sold to a mobile operator in the
13 United States since September 23rd of 2014?

14 A. No.

15 Q. Does WGI manufacture the products that it
16 sells?

17 A. We do both. We distribute and manufacture.
18 So we're distributors and manufacturers. So we
19 distribute open market products, like some products
20 in the grey market we distribute, Samsung, Alcatel,
21 Nokia, so on and so forth, and we manufacture our own
22 brand, which is the house brand, HAUS, H-A-U-S,
23 that's the brand.

24 Q. Does WGI personally manufacture all
25 products that it sold through the HAUS brand?

1 A. Yes. Well, we do not have -- like, we
2 manufacture them ourselves; we have factories that we
3 work with that manufacture for us, yes.

4 Q. WGI doesn't own the manufacturing facility
5 that manufactures the products?

6 A. No, we don't.

7 Q. Which products does WGI currently sell in
8 the United States that bear the WGI Design Mark?

9 A. I'm sorry?

10 Q. Which products does WGI currently sell in
11 the United States that bear the WGI Design Mark?

12 A. At the moment, none.

13 Q. When was the last time that WGI sold a
14 product in the United States with the WGI Design
15 Mark?

16 A. I can't recall right now at the moment.
17 The plan is to expand. The plan is for us to get in
18 the United States to offer products because the
19 United States is a very big market, and that's the
20 plan to -- once we're developing the brand outside
21 and once we really have got some good market share,
22 the plan is to now come into the U.S. market or a
23 similar lucrative market. But we haven't sold in a
24 while in the United States.

25 Q. So just to clarify, are you saying that as

1 of today, WGI has not yet sold any products in the
2 United States that bear the WGI Design Mark?

3 A. Yes.

4 Q. Yes, that statement is true?

5 A. Yes. We would if we probably didn't have
6 this issue with your company, but at the moment, no.

7 Q. Have you contacted with any of the
8 manufacturers that you're interested in working with
9 to manufacture the product with the WGI Design Mark?

10 A. If I did what? Repeat that, please.

11 Q. Have you contacted with any manufacturers
12 to start making products that bear the WGI Design
13 Mark?

14 A. We're making them already, so what are
15 you -- I don't understand your question. We're
16 making them already.

17 Q. Outside of the United States?

18 A. Yes, yes.

19 Q. And how many manufacturers do you have for
20 products that bear the WGI design line?

21 A. Right now we have about seven or eight.

22 Q. Are any of those manufacturers located in
23 the United States?

24 A. No.

25 Q. Who are WGI's current competitors?

1 A. We have many competitors. We have
2 competitors from the big brands, the Samsungs, the
3 Huawei's, the Alcatels, we have the local, small shops
4 who compete with us.

5 Q. Who would you say are your first biggest
6 competitors or your five main competitors?

7 A. Samsung, Huawei, Alcatel, ZTE, Motorola.

8 Q. Do you consider any company that
9 manufacturers a cell phone to be a competitor of WGI?

10 A. Yeah.

11 Q. Would you consider any company that
12 manufactures a computer terminal to be a competitor
13 of WGI?

14 A. A computer terminal, I mean, it's -- again,
15 it's -- it's how technical you get. If you say a
16 computer terminal meaning a PC, no.

17 Q. What is your understanding of the term
18 computer terminal?

19 A. Well, I consider a PC, but then, you know,
20 you could say terminals, it can be -- if you want to
21 break it down, it can be broken down to mean
22 something else. If you consider -- if you're asking
23 me if we consider manufacturers of personal computers
24 competitors, no, like a PC, no. As we know it.

25 Q. And why would a company that sells -- why

1 actually have an LTE card or a 3G card so the PCs can
2 connect directly to the Internet.

3 So, like I said before, I'm always looking
4 for new technology and see where it's going. And so
5 in preparation for IOT, we're making -- we're
6 looking at different products that we can
7 incorporate. And a PC may be in the line. Right
8 now it's not, but the PC is something that -- you
9 know, as I said, everything is connected. We're
10 looking into everything that can -- our customers
11 may need.

12 Q. Do you consider any company that
13 manufactures a computer modem to be a competitor of
14 WGI?

15 A. A modem, yes.

16 Q. And would you consider any company that
17 manufactures a netbook to be a competitor of WGI?

18 A. A 3G netbook? A 4G netbook, yes.

19 Q. Are there some types of netbooks that you
20 think would not compete with WGI products?

21 A. Yeah, if there is no 3G or 4G card inside
22 of it, yes. But the ones with 3G, 4G -- like, for
23 example, I know Hewlett Packard is making them now
24 with a 4G card. So I would definitely want to get
25 into that space also because then the customer

1 compatibility and that sort of thing. So the regular
2 user, no.

3 Q. Do you think that WGI's competitors in the
4 future are likely to be different companies than the
5 companies that are competitors today?

6 A. Yes. Because, again, the --

7 Q. Who do you think could become WGI's
8 competitors in the future who aren't your competitors
9 today?

10 A. I don't know, honestly. I don't know. I
11 can't answer that question. I mean, anyone can be.
12 I mean, if they're offering the products that we
13 carry or intend to carry, they're competitors.

14 Q. Can individual consumers purchase WGI's
15 products?

16 A. At the moment they cannot purchase
17 directly, but they can purchase from our customers.
18 But, again, the -- like I mentioned before, the focus
19 now is B2B, but we're going to -- the potential is
20 there also in the B2C world. There's a lot of
21 opportunities there, a lot of products that we can
22 offer in the B2C space.

23 Q. And where do your customers and individual
24 consumers purchase WGI products from?

25 A. Any of our operating customers, any one.

1 Remember, our customers are operators, they provide
2 the devices. They're-- the end customer goes to them
3 to get the products, so anyone.

4 Q. I believe you said earlier that you
5 couldn't name as you sit here any customers in the
6 United States that were operators?

7 A. No, no. I would have to check the books
8 for that.

9 Q. So businesses can purchase WGI's products
10 directly from WGI?

11 A. At the moment, yeah, the -- yes. A
12 business can be, yes. A corporate -- if the volume
13 is there, yes.

14 Q. What kind of volume would a business need
15 to have in order to purchase something from WGI?

16 A. For example, we do the data devices, we
17 have, you know, MOQ a hundred pieces, we have the
18 phones, MOQ, maybe 5,000 pieces, so it all varies.
19 But we do volume. So we're not going to sell one,
20 one item. It needs to be volume. It's volume-driven
21 at the moment.

22 Q. Do you know who your top five customers
23 are, five sales volumes over the past five years?

24 A. We have Digicel Group in the Caribbean, we
25 have Solomon Telecom, Solomon Islands, we have

1 Vodafone in Fiji, Vodafone French Polynesia. We have
2 Digicel Curacao, we have -- the top five. T Plus in
3 Cape Verde.

4 Q. And are those customers over the past five
5 years, are those the same top customers that you had
6 ten years ago?

7 A. No, the customers change. It changes.
8 It's not like -- customers change. Next year it will
9 be different customers. It's how the business is.
10 That's why we're always looking for new stuff, new
11 technology. Because the customers change, the need
12 changes, the market changes. Different markets,
13 disposable income is great in some markets, some
14 products work in one market, we never had a different
15 market.

16 Q. What was WGI's sales revenue last year?

17 A. 3 to 5 million.

18 Q. So 5 million in 2017?

19 A. Yes.

20 Q. And about 5 to 10 percent of that would be
21 the United States?

22 A. I don't think the United States had sales
23 last year, no. We have Canada, but not the United
24 States.

25 Q. Approximately what do you think your sales

1 revenue was in the United States in 2017?

2 A. I don't think we had any sales in the
3 United States last year.

4 Q. You didn't have any sales in the United
5 States?

6 A. I don't think we did, no.

7 Q. Did WGI have any sales in the United States
8 in 2015?

9 A. Remember I said we haven't done any sales
10 in the United States in a while, so . . . And as far
11 as -- we haven't done any B2B sales. We've done some
12 things in Amazon and stuff, but nothing considerable.
13 It's not -- it's very little. Most of the stuff done
14 in the United States has been like on Amazon and
15 stuff.

16 Q. Does WGI sell products on Amazon directly
17 or does one of WGI's customers sell products on
18 Amazon?

19 A. We sell directly on Amazon.

20 Q. You said that WGI's sales revenues in 2017
21 were about \$5 million. What about over the past five
22 years, what were the sales revenues then?

23 A. That's average. It goes anywhere from five
24 to eight million.

25 Q. So five to eight million dollars in sales

1 breakdown of that revenue between the various product
2 types that you sell?

3 A. I would say it's a 50/50 between our brand
4 and the open-market stuff. So, you know, when I say
5 "open market," I mean like the Apple, Samsung,
6 Motorola, and then our brand which comprises the
7 phones, the MiFis, the data device, CPEs, that sort
8 of thing. It's the HAUS brand, H-A-U-S, HAUS, that's
9 the brand.

10 Q. What is the breakdown in revenues between
11 third-party products that you sell and then your own
12 products.

13 A. It's like 50/50. We're trying to -- we
14 want to get to a hundred percent just our product.
15 That's the goal, a hundred percent our product; not
16 anybody else's, Motorola or Samsung or Apple. We
17 want to go a hundred percent our product. That's the
18 strategy, to get to that point.

19 Q. Throughout this deposition, when you are
20 referring to the HAUS brand, do you mean WGI Design
21 Mark, the trademark we're here for in this
22 deposition?

23 A. Correct. Yes, that's the thing we're here
24 for, yeah.

25 Q. Has WGI sold any of the products with the

1 Q. So you were saying that a computer monitor
2 can be used in connection with a computer terminal;
3 is that right?

4 A. I'm saying an LCD can be connected to the
5 CPU.

6 Q. All right. Mr. Reid, what is a modem?

7 A. A modem is a device that modulates and
8 demodulates.

9 Q. And what does modulate and demodulate mean?

10 A. Basically gets one signal and converts to
11 another signal. For example, it takes the signal
12 from the tower and converts it to a signal that the
13 device -- that the phone can use or, I mean, the
14 device can use, the computer can use. So, basically,
15 it just converts one signal to another signal. It
16 can do analog to digital, digital to analog, that
17 sort of thing.

18 Q. Turning back to Exhibit 6, are any of your
19 WGI products in Exhibit 6 modems?

20 A. Yes, they're all modems.

21 Q. All of the products in Exhibit 6 are
22 modems?

23 A. Yes. They all modulate and demodulate.

24 Q. Can computer monitors be used in connection
25 with modems?

1 A. Well, it could be used, but not by itself,
2 but it could be with the LCD and the CPU, yeah. You
3 need the LCD to view the interface, yes.

4 Q. So if you had the right components, a
5 computer monitor could be used with a modem?

6 A. Correct.

7 Q. Okay. And what is a netbook?

8 A. I would consider netbook a PC, personal
9 computer.

10 Q. How is a netbook different from the tablet
11 computer?

12 A. Actually, it's not much different from a
13 tablet computer, the netbook. I mean --

14 Q. Is there any difference at all between the
15 tablet computer and the netbook?

16 A. I mean, one is a keyboard; a tablet also
17 has a keyboard, it is not a physical keyboard. They
18 do the same thing. As far as functionality, it is
19 the same. Actually, people are moving away from
20 netbooks.

21 Q. The only difference between a netbook and a
22 tablet computer is that a tablet computer has a
23 keyboard and a netbook doesn't?

24 A. I mean, there's more differences. For
25 example, the netbook may have different ports. You

1 screen size. That's it. We've made tablets. I
2 don't think we included tablet in here, but . . .
3 There are none in here. Like, for example, these
4 devices just need to make it a bigger screen.
5 Inside it's the same, just a bigger screen.

6 Q. And when did WGI start selling tablet
7 computers?

8 A. We sold -- I do not have the exact date
9 here, but like I have the POs that we got, Malawi,
10 one of the big customers we sold tablets to. And we
11 do tablets, open-market tablets, and we do our own
12 brand tablets.

13 Q. And how many years have you been selling
14 tablets?

15 A. Since we started we have been doing that,
16 since we started in 2002.

17 (Thereupon, marked as Exhibit 11.)

18 BY MS. EKHOFF:

19 Q. Okay. Let's turn back to Exhibit 11 now.

20 A. Okay.

21 Q. This is a tablet computer, correct?

22 A. It is a tablet, yeah.

23 Q. Yes?

24 A. Yes.

25 (Thereupon, marked as Exhibit 12.)

1 BY MS. EKHOFF:

2 Q. And, Mr. Reid, the product that's pictured
3 in the center of Exhibit 12, that's also a tablet
4 computer, isn't it?

5 A. It looks like it, yeah.

6 (Thereupon, marked as Exhibit 13.)

7 BY MS. EKHOFF:

8 Q. Mr. Reid, would you agree that this product
9 in Exhibit 13 is also a tablet?

10 A. Yes.

11 (Thereupon, marked as Exhibit 14.)

12 BY MS. EKHOFF:

13 Q. Mr. Reid, in the picture in Exhibit 14, is
14 the product that the man is holding, does that also
15 appear to be a tablet?

16 A. Uh-huh, yeah.

17 Q. And can tablet computers be used for video
18 conferencing?

19 A. Yes.

20 Q. Could a tablet computer be used to conduct,
21 for example, a video call on Skype?

22 A. Yeah, a tablet, a phone, a PC, yes.

23 (Thereupon, marked as Exhibit 15.)

24 BY MS. EKHOFF:

25 Q. Mr. Reid, would you agree that this is a

1 product with a touchscreen that's used for video
2 conferencing?

3 A. Yes.

4 (Thereupon, marked as Exhibit 16.)

5 BY MS. EKHOFF:

6 Q. Mr. Reid, is this also a product that has a
7 touchscreen and is used for video conferencing?

8 A. It looks like it. I don't know about
9 touchscreen, but video conferencing, yes.

10 (Thereupon, marked as Exhibit 17.)

11 BY MS. EKHOFF:

12 Q. Mr. Reid, is this another product with a
13 touchscreen that's used for video conferencing?

14 A. I don't know what this product is. I
15 guess. I don't know what this is. I haven't seen
16 this before.

17 Q. Do you agree that video conferencing
18 products that have touchscreens are similar to
19 tablets?

20 A. Yeah, phones are similar to tablets,
21 computers and PCs; I mean, they all do the same
22 thing. It just depends on the size. I can use my TV
23 for that, too, the video conferencing, touchscreen.

24 Q. So anything with a touchscreen could be
25 similar to a tablet computer?

1 A. Yeah the phone is a touchscreen. It's just
2 the screen is bigger in a tablet than a phone.

3 Q. And even aside from phones, any product
4 that has a touchscreen could be similar to a tablet
5 computer?

6 A. I guess. I'm not sure of the question
7 there, but . . .

8 Q. Is it fair to say that any phone that can
9 view video conferencing is similar to a tablet
10 computer?

11 A. I mean --

12 Q. Has a similar functionality?

13 A. Can you repeat that? Any phone that's
14 what, I'm sorry?

15 Q. Gina, can you repeat the question, please?
16 (Requested portion read back.)

17 A. I don't know, I don't know. That's just a
18 vague question. I don't know that I can answer that
19 question.

20 BY MS. EKHOFF:

21 Q. I think earlier you were saying that phones
22 and tablet computers have the same functionality, the
23 only real difference was screen size; is that
24 correct?

25 A. Yes, that's true.

1 Q. Okay. We can move on.

2 MS. EKHOFF: Gina, can you hand Mr. Reid
3 Exhibit 18, which is BOSCH 92.

4 (Thereupon, marked as Exhibit 18.)

5 BY MS. EKHOFF:

6 Q. And the product in Exhibit 18 is a keypad
7 for a security system with a touchscreen on it; is
8 that right?

9 A. Yes.

10 (Thereupon, marked as Exhibit 19.)

11 BY MS. EKHOFF:

12 Q. Mr. Reid, would you agree that Exhibit 19
13 is also a keypad for a security system that has a
14 touchscreen on it?

15 A. Yes.

16 (Thereupon, marked as Exhibit 20.)

17 BY MS. EKHOFF:

18 Q. Would you agree that this one also has a
19 keypad for a security system with a touchscreen on
20 it?

21 A. Yes, correct.

22 Q. Let's go back to Exhibit 7 now. We looked
23 at it a little bit earlier today.

24 A. Okay.

25 Q. Let me know when you have it in front of

1 grading system. It's IP68.

2 Q. Okay.

3 A. It can be used for the military, too,
4 but . . .

5 Q. Could this product be used by people, for
6 example, in the construction industry?

7 A. Yeah, construction, the military that they
8 go on the field a lot, and -- yeah. Construction.

9 Q. What about automotive? What about
10 automotive repair?

11 A. It could be, oil rigs. Oil rigs. I mean,
12 minefields, the gold mines, yeah.

13 MS. EKHOFF: Okay. Gina, can you please
14 hand Mr. Reid Exhibit 21, which is Bates
15 numbered BOSCH 95 through BOSCH 102.

16 (Thereupon, marked as Exhibit 21.)

17 BY MS. EKHOFF:

18 Q. This document is entitled "WGI Telecom
19 Inc.'s Response to Robert Bosch GMBH's First Set of
20 Interrogatories."

21 Do you recognize this document?

22 A. Yes.

23 Q. Do you remember serving this document on
24 Bosch earlier in this proceeding?

25 A. Yes.

1 Q. Please turn to Interrogatory Number 8.

2 A. Okay.

3 Q. Which is on page BOSCH 98.

4 A. Okay.

5 Q. WGI is asked to explain in detail when and
6 how it first became aware of Bosch's Magneto Design
7 Mark, and you answered that you had seen the mark on
8 certain kitchen appliances, is that right?

9 A. Yes, I have seen it on kitchen appliances.
10 Bosch, yeah. But, like I said, the mark is nothing
11 similar to my mark, so to me it was no big deal. I
12 have seen the Bosch -- I mean, everyone knows Bosch.
13 I mean, that's not something I, like, you know, that
14 I see every day, but I have seen it before.

15 Q. And are there any certain kitchen
16 appliances that you recall seeing Bosch's Magneto
17 Design Mark on?

18 A. No, I can't recall it, no.

19 Q. Before this proceeding, did you know that
20 Bosch sells electronics?

21 A. I guess they do. That's something -- I
22 have seen the kitchen stuff, but not electronic stuff
23 that I'm aware of. But, again, it goes back -- it
24 still goes back to the fundamental point that my mark
25 is nothing close to your client's mark. And like I

1 told the lady, your guys, my -- the mark and the name
2 H-A-U-S goes together, so there can be no, you know,
3 confusion or anything. You will not see the mark
4 without the -- the mark and H-A-U-S, they go
5 together. There won't be one without the other. So
6 there's no confusion there. So, I mean, I don't know
7 why I'm . . .

8 Q. I move to strike that as nonresponsive.

9 Mr. Reid, before this proceeding, did you
10 know that Bosch sells products for use in
11 conferencing systems?

12 A. No. I don't care about Bosch. I mean, why
13 am I going to research Bosch? No.

14 Q. Mr. Reid, Bosch is one of the parties in
15 this proceeding, so --

16 A. Yeah, but --

17 Q. -- you need to answer a few questions about
18 it. We're nearing the end.

19 Before this proceeding, Mr. Reid, did you
20 know that Bosch sells products for home security
21 systems?

22 A. No.

23 Q. And before this proceeding, did you know
24 that Bosch sells products for the automotive
25 industry?

1 A. Yes.

2 Q. Which automotive products did you know that
3 Bosch sells?

4 A. I don't -- I can't recall which one; I have
5 seen it before somewhere.

6 Q. You said before that I think everybody
7 knows Bosch. Which of Bosch's products do you think
8 that consumers are most familiar with?

9 A. I don't know. I have heard the name Bosch.
10 I know it is a German company, so I don't know. Like
11 I said, I have seen kitchen appliances with it, but I
12 don't know -- I don't know which one consumers are
13 more -- I have no idea. Bosch would have to answer
14 that.

15 Q. Mr. Reid, WGI filed the application that's
16 at issue in this proceeding on September 23rd of
17 2014. As of that date, what specific steps has WGI
18 taken towards preparing to sell any of the good with
19 the WGI Design Mark on them in the United States?

20 A. Can you please repeat that?

21 (Requested portion read back.)

22 A. The same thing we've done, is to send our
23 promotions out, our marketing promotions with the
24 products to our customers. And we've made calls,
25 phone calls. We've called customers --

1 But it's a lot of stuff you guys were requesting from
2 a small business. I think that's the strategy
3 sometimes with these big companies, that they win by
4 attrition. You know, with a small business, small
5 business owners don't have time for all this, to
6 research all of this stuff. You want to grow your
7 business. But these companies have high-price
8 attorneys, and they can bombard you with requests, so
9 people give up, you know. So I think it's winning by
10 attrition. So the small businesses are at a
11 disadvantage of people like your customer.

12 You're doing your job. You're doing your
13 job, which is the legal stuff. My job is to sell
14 devices. I can't do that because I'm bombarded with
15 stuff like this. I am wasting my whole morning
16 doing this stuff now. All right?

17 Q. Mr. Reid, let me clarify your answer to
18 that question. You didn't produce any emails in this
19 proceeding about the WGI Design Mark, did you?

20 A. No.

21 Q. Before September 23rd of 2014, did WGI
22 approach anyone to try and license the WGI Design
23 Mark?

24 A. We have a company we use. We have a
25 trademark company, it's called the Trademark Group.

1 We requested our mark through them, and they were the
2 ones that did the search and then proceeded. They
3 did a search to see who has something similar, and
4 then they proceeded. We paid for that service. We
5 paid extra for that service to do a search, a
6 complete search.

7 Q. Let me rephrase that question. By license
8 I mean have any third parties approached WGI wanting
9 to use the WGI Design Mark and to license it from
10 you?

11 A. No, no.

12 Q. Has WGI ever entered into any agreements
13 with third parties to license the WGI Design Mark?

14 A. No.

15 MS. EKHOFF: Let's go off the record.

16 (Recess was held from 1:19 p.m. until 1:27 p.m.)

17 BY MS. EKHOFF:

18 Q. Mr. Reid, I want to go back briefly to two
19 topics that we had discussed before, and then we
20 should be able to wrap things up.

21 A. Okay.

22 Q. The first question, we talked before about
23 the breakdown between your different types of
24 products, and I want to make sure I understand. What
25 would you say is the breakdown in sales revenue

1 That may change in the coming years because now we're
2 getting to the IOT space where, you know, the
3 Internet of things. And we see that as coming up now
4 where so many things, you know, are connected, where
5 we go into the homes, the different devices in the
6 homes, all of them use data, you know, so we're going
7 to be including those in the portfolio. So that may
8 change. As of today, it's the 60/40 breakdown.

9 Q. Okay. And for products with the WGI Design
10 Mark, what percentage of sales do tablet computers
11 account for?

12 A. We do tablets, I'd say maybe 5 percent.

13 Q. And what about netbooks?

14 A. Netbooks, we've done a very small amount of
15 netbooks. I mean, that will change again with the 4G
16 now. The manufacturers are trying to make the
17 tablets with the 4G cards in them, so, you know, that
18 may change.

19 Q. Okay. And for purposes of these numbers,
20 both netbooks and tablet computers are part of a cell
21 phone, that's 60 percent of your sales?

22 A. Yes, yes, correct.

23 Q. Okay. You mentioned possibly expanding
24 into the Internet of things. What types of Internet
25 of things enabled devices do you think WGI will

1 expand into with the WGI Design Mark?

2 A. The connected home, the smart plugs, smart
3 switches, smart bulbs, the smart cars, the cars,
4 connection to the cars, to do -- you know, for
5 example, one of the devices we have right now in
6 testing is a device that plugs into a car, it can
7 give you everything, diagnostic information of how
8 often they brake the car -- I mean pressing the
9 brakes, sorry. Geofencing like for fleet management.
10 So a fleet -- a guy has a company that, you know, may
11 have tons, a lot of vehicles, and make sure that the
12 vehicles are in the area they're supposed to be.
13 That's what we call geofencing.

14 Again, it is the -- actually, it used to
15 be called IOT, which is the Internet of things, but
16 now they're saying it is going to be IOE, which is
17 Internet of everything. So, I mean, it's going to
18 be -- the possibilities are going to be endless
19 going forward. Everything will be connected.
20 Everything will be connected. And now that they're
21 talking about 5G, that means there's more bandwidths
22 you can have to push things. So, I mean, the
23 possibilities are endless for us.

24 Q. Okay. You mentioned that WGI may expand
25 its WGI Design Mark into smart homes. Could that

1 or 4G or 5G network, we will want to be in that
2 space. That's our -- our customers need those
3 things, our customers being the mobile operators.
4 Anything that they can use to gain additional revenue
5 stream, then we want to offer it to them. Because
6 the industry's moved away from the past where the
7 revenue -- the voice was a revenue generator. Now
8 the revenue generator is the data. So whatever
9 device or products that will consume data, these are
10 the things that my customers want. That's how they
11 make money, off of data; not the voice, the data. So
12 anything data related.

13 Q. Okay. Second-to-last question, and this
14 should be an easy one.

15 What is your master's degree in?

16 A. Marketing.

17 Q. Marketing?

18 A. Yes, correct.

19 Q. And final question, are there any answers
20 that you gave during this deposition that upon
21 further reflection you would like to correct or
22 change?

23 A. No. No. None that I can think of for the
24 moment.

25 MS. EKHOFF: Okay. All right. Well, thank

**UNITED STATES PATENT AND TRADEMARK OFFICE
TRADEMARK TRIAL AND APPEAL BOARD**

In the matter of Application Serial No. 86/403,265

Robert Bosch GmbH,)	
)	
Opposer,)	
)	
v.)	Opposition No. 91,225,003
)	
WGI Telecom Inc.)	
)	
Applicant.)	

**FIRST REVISED RULE 30(B)(6) NOTICE OF DEPOSITION OF
WGI TELECOM INC.**

PLEASE TAKE NOTICE that pursuant to Rule 30 of the Federal Rules of Civil Procedure, Opposer Robert Bosch GmbH (“Bosch”), will take the deposition(s), upon oral examination, of the appropriate representative(s) of Applicant WGI Telecom Inc. (“WGI”), beginning on May 4, 2018, at 10:00 a.m., at the offices of Veritext, located at One E. Broward Blvd., Suite 1101, Fort Lauderdale, FL 33301.

The deposition will be conducted before an officer authorized to administer oaths and will be recorded by video, audio and/or stenographic means. The deposition will continue from time-to-time and from place-to-place until completed or adjourned, and may be used for all purposes contemplated under the Federal Rules of Civil Procedure.

Pursuant to Rule 30(b)(6) of the Federal Rules of Civil Procedure, WGI is required to designate one or more representatives to testify in regard to the subject areas set forth herein, subject to the below definitions and instructions.



DEFINITIONS AND INSTRUCTIONS

The following definitions and instructions apply to these requests for production:

A. As used herein, the term “Bosch” means Robert Bosch GmbH, its predecessors in interest, related organizations, and the officers, directors, employees, agents and representatives thereof.

B. As used herein, the term “WGI” means WGI Telecom Inc., its predecessors in interest, its subsidiary and related organizations, and the officers, directors, employees, agents and representatives thereof.

C. As used herein, the term “Mark” refers to the mark that is the subject of United States Application No. 86/403,265, namely, 

D. As used herein, the “Application” shall refer to WGI’s United States Application No. 86/403,265.

E. As used herein, the term “Magneto Design Mark” refers to the mark that is the subject of Robert Bosch GmbH’s United States Registration Nos. 2,051,819; 4,315,252 and 4,412,647, namely, 

F. As used herein, the words “and” and “or” shall be construed disjunctively or conjunctively as necessary in order to bring within the scope of the request all responses which might otherwise be construed to be outside its scope.

G. As used herein, the singular shall always include the plural and the present tense shall always include the past tense, and vice versa.

DEPOSITION TOPICS

1. WGI's creation, design, selection, clearance, use, and first use of the Mark.
2. WGI's intent to use and first use of the Mark in connection with each of the goods identified in the Application.
3. The preparation and filing of the Application.
4. WGI's past, present, and planned advertising, marketing, and promotion of goods and services sold in connection with the Mark, including expenses for advertising, marketing and promotion.
5. WGI's sale of goods and services in connection with the Mark, including sales revenues and pricing of each such good and service.
6. WGI's plans to use the Mark in connection with any goods or services not identified in the Application.
7. Consumers of goods and services bearing the Mark.
8. The channels of trade and specific outlets through which WGI sells goods and services in connection with the Mark.
9. WGI's competitors for all goods and services sold in connection with the Mark.
10. WGI's awareness, including first awareness, of Bosch's Magneto Design Mark.
11. Third-party use, former use, or claims of use of any element of the Mark or the Magneto Design Mark.
12. Instances or possible instances of confusion, mistake, deception or association of any kind which have or may have occurred between WGI or WGI's use of its Mark and Bosch or Bosch's use of the Magneto Design Mark.

13. Formal or informal investigations, including but not limited to, research, searches, surveys, tests or studies of any kind which WGI has conducted or has knowledge of pertaining to the Mark or the Magneto Design Mark, or products bearing the Mark or Magneto Design Mark.

Dated: March 26, 2018

Respectfully,
PATTISHALL, MCAULIFFE, NEWBURY,
HILLIARD & GERALDSON LLP

By: /s/ Jessica A. Ekhoff
Thad Chaloeintiarana
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Attorneys for Robert Bosch GmbH

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing was served upon the following by first-class mail, postage prepaid, on March 26, 2018, with a courtesy copy by email:

Winston Reid
WGI Telecom, Inc.
1786 North Commerce Parkway
Weston, FL 33326

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/s/ Jessica A. Ekhoﬀ

1-855-637-8665

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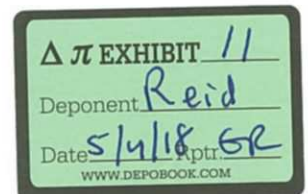


Product Overview

Part # AULMS908CV

The Autel MaxiSYS CV performs enhanced system diagnostics on more than 60 commercial heavy, medium and light-duty vehicles. There is a 9.7-inch LED capacitive touch screen on this Android-based tablet. It is both WiFi and Bluetooth enabled tablet. This heavy duty table reads and clear codes and views and graphs live data. It provides the ability to perform tool-guided maintenance services. It can complete a number of special functions and diagnose manufacturer-specific systems including Allison transmissions, Bendix ABS Brake systems, Detroit Diesel Engines. Includes One-year software updates

Specifications



Name	Autel MaxiSYS MS908CV Heavy Duty Diagnostic Tablet
Part #	AULMS908CV
Brand	Autel
Weight	21.00 lbs
Warranty	Manufacturer's Warranty

Customer Reviews

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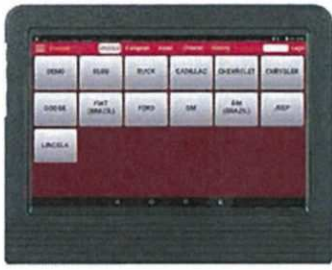
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Automotive > Tools & Equipment > Diagnostic & Test Tools > Code Readers & Scan Tools



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Launch
Launch X431 V+ Full System Diagnostic OBD2 Android Wifi Tablet
Scanpad Scan Tool with 2 Years Online Update DBScarII
Bluetooth Connector Module and Complete Accessories Set

85 customer reviews | 335 answered questions

Price: **\$1,149.00**

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Size: Launch X431 V+	Launch X431 V+	X431 Heavy Duty Module
Launch X431 V Plus + Heavy Duty Module	\$1,149.00	\$719.00

X431 V Plus Heavy Duty
 \$1,399.00

- **THE MOST ADVANCED UI:** Utilizes Android 5.1 to provide you with an easy to use Interface that has powerful functions, quick auto scanning and vehicle diagnosis, and a touchscreen user interface that is easy to learn
- **BEST HARDWARE:** The Launch X431 V+ is the newest version of the X431 standard and is the successor to the V, IV and X431 Diagn III versions. This model has a higher hardware configuration, larger storage capacity, faster processor, latest display technology (10 inch capacitive touch screen), and bigger battery for a longer use time between recharging
- **WIRELESS CONVENIENCE:** With a Bluetooth OBDII connector module with function, you can wirelessly communicate directly with any vehicle. Since you do not need to be wired into the dashboard when using the Launch X431 V+, you are now free to run the scanning, repair and diagnostic tests while you are working under the hood or while doing other maintenance tasks at your workbench
- **POWERFUL FUNCTIONS:** Diagnosis functions include: Read DTCs, Clear DTCs, Read Datastream, Maintenance Recommendations, Special Repair Functions
- **DIAGNOSTIC TOOL FOR EVERY SITUATION:** Supports over 68 car brands and 220 car models from America, Europe, Asia

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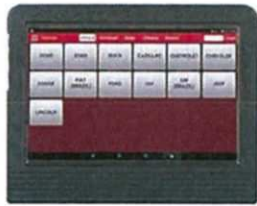
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Product information

Size: Launch X431 V+

Technical Details

Brand	Launch
Item Weight	13.23 pounds
Product Dimensions	13.8 x 5.9 x 9.8 inches
Item model number	A053
Manufacturer Part Number	A053
Folding	No
Vehicle Service Type	Ford, Chrysler, GM, Mercedes Benz, BMW, Fiat, Peugeot, Saab, GMSA, EOBD2 Cars, Jaguar, Renault, Smart, Sprinter, VAZ, VW, Dacia, Land Rover, Romeo, Porsche, Volvo, AJDI, Citroen, Lancia, Acura, Daewoo, Lexus, Holden, Maruti, Tata, Infiniti, Proton, Isuzu, Mazda, Suzuki, Daihatsu, Mitsubishi, Toyota, Hyundai, Kia, Nissan, Subaru, Honda

Technical Specification

User Manual [pdf]

Additional Information

ASIN	B00NID560M
Customer Reviews	85 customer reviews 4.3 out of 5 stars
Best Sellers Rank	#19,825 in Automotive (See top 100) #143 in Automotive > Tools & Equipment > Diagnostic & Test Tools > Code Readers & Scan Tools
Shipping Weight	17.7 pounds (View shipping rates and policies)
Domestic Shipping	Currently, item can be shipped only within the U.S. and to APO/FPO addresses. For APO/FPO shipments, please check with the manufacturer regarding warranty and support issues.
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Date First Available	April 18, 2014

Warranty & Support

Product Warranty: For warranty information about this product, please click here

Feedback

If you are a seller for this product, would you like to suggest updates through seller support?
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Product Description



Coding + Special Functions + All System Diagnoses



Wireless Bluetooth Diagnosis

Instead of diagnosing car via a diagnostic cable, this auto scanner provides you with much convenience due to its Bluetooth feature. You are able to diagnose car freely, either at your workbench or under the hood.

Smooth Operation & Quick Diagnoses

Equipped with a large 10.1" display, different data in wavelike form can be displayed at the same time. Therefore, you can find the malfunctioned parts directly and solve problems quickly. The Android 5.1 system also facilitates a super good experience of diagnosis.

Battery's Duration

Accompanied with 7000mAh battery, you are able to continuously use the tool about 4 - 6 hours, depending on what operation you do, before recharging it. That's really time-saving.

Durable Design

Features dustproof, drop resistant, greaseproof and waterproof (the screen), you will not be bothered by the grease, dust and water when diagnosing and fixing the vehicle.



ECU Coding and Auto VIN Tech

This diagnostic tablet supports ECU coding function on a large amount of makes, including Benz, Ford and more. It also supports quick diagnosis via one-button VIN scanning.

ALL Systems' Diagnoses

To diagnose car comprehensively, it can read DTCs and data streams for ALL systems. For Instance, Fuel system, Emission system, Transmission, Engine, Body, Powertrain and more. You do not have to buy other tools for diagnosing systems, saving you much time and money from a long term.

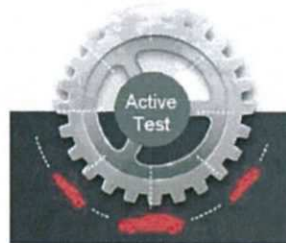
Full 11 Special Functions

- Oil Reset Service & Steering Angle Calibration
- Electronic Parking Brake Reset
- Battery Register / Battery Maintenance
- ABS Bleeding & Electronic Throttle Position Reset / Learn
- Diesel Particulate Filter (DPF) Regeneration & Tire Pressure Monitor System Reset
- Tooth Learning/Anti-theft Matching



Anti-theft Matching

This function can protect your car from being stolen by clearing the lost car key information and programming the new key into the ECU database. Also known as keys programming.



Active Test

Active test is to test output elements. You can figure out whether a specific subsystem or component in your car functions well or not by using this tool to make the tester outputs function instead of checking in ignition status.



Technology Backup

You can get remote control tech support from LAUNCH tech team by sending one-click recorded videos and accurate diagnostic results to them. Also, the one-click update online feature is quite convenient.

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Top customer reviews

J. Lackey

I love this thing

October 4, 2016

Size: Launch X431 V+ Verified Purchase

I love this thing. In my opinion, its well worth the money. It does the same thing all those overpriced \$8,000 Snap on units do, for 1/6th of the price. Snap on can't write the info reading software for the cars, they must rely on the manufacturer to tell them everything. So in that way, they're no different. And look it up, that's the only real way that matters. Anything else is just fluff and puff you don't need. Buy this thing, instead of getting ripped off. Now there is something that I think the company should be more clear about. This WILL NOT WORK until you do 2 things. You must email them your serial number. Its useless until you do that. Apparently they've had a lot of knock offs, so they're protecting their IP by having you email them before you can actually download the necessary software for it. That confused me initially, as it wasn't mentioned in the paperwork. At least nowhere that I could see.

They have to activate the unit from their end, and its useless except for just OBD2 scanning until they do. You won't be able to download the real software, that lets you scan every system in the car and tells you exactly what is wrong. Not until they activate it. So you have to get in contact with them. They do give you an email address, and you just send them your serial number and ask them to activate the unit so you can download the software. The second thing is, you have to "pair" the wireless OBD2 connector to this. Somewhere on one of the diagnostic screens, up in the corner or something, it will ask you for the number that is on the wireless OBD2 connector. You have to put that in and essentially pair them, before this can work. That way if you ever lose the wireless connector, you can just buy another one for cheap and pair that one. Once they're paired, you don't have to do it again. But you won't be using it until you do it. Other than those two minor things, its great. You can take control of systems, and have them tell you exactly what is wrong with them. ABS light? It told

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RAFAEL GONZALEZ

Four Stars

Not too much information to go about is a bit complicated not for beginners
Published 15 days ago

Cristan Rojo

Works great on HD trucks

Works great on HD trucks. Took some time to set up, however once we got it was functioning it worked very good. Worth its price.
Published 17 days ago

Job Mendez

Five Stars

Comment 44 people found this helpful. Was this review helpful to you? Yes No Report abuse

gilbert

GREAT TOOL TO HAVE

June 25, 2017

Size: X431 V Plus Heavy Duty [Verified Purchase](#)

We asked many questions on line to other customers and to leoglobal, and all questions were answered. I am a foreman at a Diesel repair shop in Dallas Tx. We work on everything, we do have many programs to read and diagnose diesel and pick ups that have issues, more systems with DPF systems. We can use some programs on laptop but not all have a Vursue Snap on reader, and Mitchell Program. It help but really a waste of money due to the trial time is short and then you have to pay for the program. Was not really worth the money or time. We work on Mits fuso, fm 260 and others, Utd, Cummins, Detroit, Renault, Mack, duramaxx, Maxforce, Dt 466, dt 9, 10, Ford, I can read codes, do more functions, injector test, With this I can SEE DPF TEMPS, SOOT, EGR. I guess to me, worth the money we spent and did our research, this day and age I make more money with the regen issues that trucks have today. Thats what I see more. NOW I CAN SEE MITS FUSO, UD, FORD medium truck, now I can see the problem is and fix it and show the customer whats going on with their engine, while there in waiting room with the Launch pad. Print and let them see the report. I have had calls from tech support to help me load the HD part, which took a few days due to weekend. Now I have other shops call me so I can go use the launch pad on there trucks they cant read. We were surprised at work with this scanner and I AM VERY PLEASED. Now the other guys want to use mine, which IS MINE! If you want a really good scanner which you can update, and they will help, BUY this one! Or buy a Snap on and piss your money away, Or spend the money for a laptop which we have that will not read MITS,

I only ask is if they can load PACCAR, which is not on here.

Comment 23 people found this helpful. Was this review helpful to you? Yes No Report abuse

Jose martinez

Launch X431 PRO3 V2.0

January 23, 2017

Size: X431 Diagnostic Tool [Verified Purchase](#)

I was in search for a OE level scan tool for my father who has an automotive shop in Mexico. I did several research and found many scan tools out their with OE level diagnostic capabilities but I needed something that not only would work with vehicles sold in the USA but also vehicles from Latin America since they do offer different models. I found that all scanners/computers had the capabilities of reading DTC, scan, graph but the Launch x431 pro 3 v 2.0 had a much broader coverage of not only the basic capabilities and over 100 vehicle makes and models but also has transmissions, ABS, SRS, Body control module, Suspension, Infotainment, TPMS, key programming and much more all in one tool, plus it had capabilities of other languages and functionality in many other country's which my concern was Mexico so this scanner covered all of our needs.

I was able to send the scanner to Mexico and the seller offered great customer service, he assisted us thru the product registration and program installations.

the end result was great, the scanner worked flawlessly in Mexico and was put up to the test with vehicles from Latin America and US, it connected with various makes and models, so far ever thing we throw at it, communicates with.

It has also communicated with the Nissans 4 cylinder diesel engines and many other small diesel engines sold in Latin America.

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Comment 24 people found this helpful. Was this review helpful to you? Yes No Report abuse

[See all 85 reviews](#)

good tool to have
Published 20 days ago

Joseph J. Davis

Just what I need

It is the product just what I need, and it is easy to operate, I would like to recommend it to my friends.

Published 1 month ago

somi baek

Cost effective

This is the first diagnostic tool I've had of LAUNCH; however, it's a reasonable choice. Unlike others with expensive price for the capability of full systems diagnoses, this one... [Read more](#)

Published 1 month ago

Amanda

Excellent tablet diagnostic tool

Well, this is truly a great diagnostic tool. Used it for almost 2 weeks, and truly helped in vehicle health status checking. [Read more](#)

Published 1 month ago

fatmatu fillie

Four Stars

Got help when I need to setup the machine from agent. Very pls

Published 2 months ago

Mark Remia

One Star

Can not use machine no activation code I will be returning it to not have the boxes

Published 2 months ago

M. Phelps

I purchased this tool on Amazon Prime, received it ...

I purchased this tool on Amazon Prime, received it and registered/downloaded all the updated software without an issue.

[Read more](#)
Published 2 months ago

Amazon Customer

I do recommend this to anyone how it thinking about

buying this ... Yes, this Launch x431+system diagnostic tablet meet my expectation. I do recommend this to anyone how it thinking about buying this tablet. It was easy to set up.

Published 3 months ago

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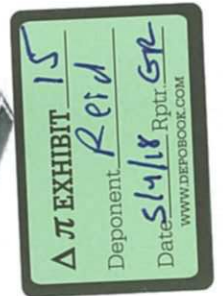
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RealPresence Touch



Control group collaboration with confidence: Simple and intuitive design lets you focus on your conversations instead of the technology



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Overview

Polycom RealPresence Touch is a touch interface for RealPresence Group Series and Polycom's Immersive Telepresence solutions. The simple and intuitive design lets you focus on your conversations instead of the technology. The design is consistent across the Polycom portfolio, whether you're calling from a conference room or using a Polycom desktop, mobile or web client. This makes it easy to use video collaboration from any environment, with an interface that is instantly familiar no matter where you're calling from.

- One touch dialing from the integrated calendar, right on the home screen
- Speed dials provide quick access to people, rooms, or virtual meeting rooms
- Search a directory to quickly connect to the right person or location
- Easy access to share content, adjust camera views, change participant layouts and more to get the most out of your meeting
- Position it the way that you want, either standing taller or flipped over for a lower profile
- Sleek design with integrated Power over Ethernet adds style to any meeting space
- Background image can be customized to match your branding or provide information about the room
- The home screen buttons and default screens can be selected by administrators to optimize the experience for their user base, resulting in fewer support calls

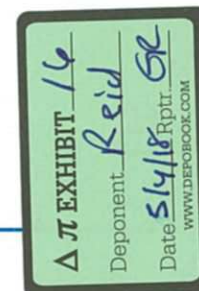
Technical Overview

For IT administrators, RealPresence Touch is easy to deploy, with Power over Ethernet for single cable connections. You can also adjust the experience to meet the unique needs of your users. The background image can be customized to match your branding or provide information about the room. Plus the home screen buttons and default screens can be selected by administrators to optimize the experience for their user base, resulting in fewer support calls.

- Compatible with RealPresence Group Series, RealPresence Immersive Studio, and RealPresence Immersive Studio Flex
- Display: 10.1" LCD panel with LED backlighting and IPS (In-Plane Switching)
- Resolution: WXGA (1280 x 800)



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PRODUCT DESCRIPTION

The Cisco TelePresence System EX60 - Video Conferencing Kit is part of the Cisco family which provides the broadest line of solutions for transporting data, voice video while ensuring that networks both public and private operate with maximum performance, security, and flexibility. This video conferencing kit allows separate colleagues to work together by combining work, communications, and collaboration on the desktop with the simplicity of a touch screen interface. It's crystal clear, 1080p30 video will prove ideal for the team leader or manager who needs immediate presence with customers, partners, and employees.

Product Type: Web Conference Appliance

Dimensions (WxDxH): 20.5 in x 6 in x 20 in

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- Lyric Series
- Sensors 
- Sirens
- Keypads
- Communications
- Batteries
- Key Fobs
- Fire Detection
- Security Cameras
- Transformers
- Wire

Home / Keypads / Honeywell Tuxedo Touch Premium Keypad



Honeywell Security
Honeywell Tuxedo Touch Premium Keypad

☆☆☆☆☆
\$299.95

SKU: TUXWIFIW
 UPC: 886618127199
 Condition: New
 Shipping: Calculated at Checkout

Quantity:  1 

ADD TO CART

WISHLIST



- Overview
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 - > LSH Display Panels

B942 Touch Screen Keypad



- Color graphic touch screen display uses a combination of simple icons and text for easy operation
- Built-in presence detector lights the display when user approaches keypad
- Built-in proximity reader allows use of a token or card as replacement for a passcode, or for use with dual authentication for high security areas
- Four inputs and one output provide cost effective expansion
- Slim, modern design blends with any decor

- > Customer Service
 - Our technical support ensure that you can get the best performance from your system.
 - > more...
 - > Training
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Find product numbers

Details Certificates (2) Documents (7) Software Downloads (1)

Dimensions	6.2 in x 4.7 in x 0.65 in (158 mm x 120 mm x 16.5 mm)
Weight	11.3 oz (0.32 kg)
Material	Acrylonitrile butadiene styrene (ABS) Poly(methyl methacrylate) (PMMA)
Display window	Touch screen Multi-line messages
Indicators	Power indicator LED Status indicators Main icon Warning and indicating tones

Images



Software Downloads

> All the service you need for your product

Δ π EXHIBIT 20
 Deponent Reid
 Date 5/1/18 Rptr. SR
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UNITED STATES PATENT AND TRADEMARK OFFICE TRADEMARK TRIAL AND
APPEAL BOARD

In the matter of Application Serial No. 86/403,265

WGI Telecom Inc)	
)	
Applicant,)	
)	
v.)	Opposition No. 91,225,003
)	
Robert Bosch GmbH.)	
)	
Opposer.)	

WGI TELECOM INC'S RESPONSE TO ROBERT BOSCH GMBH'S FIRST SET OF
INTERROGATORIES

INTERROGATORY NO. 1:

Identify the person(s) most knowledgeable about Your creation and design of the Mark.

RESPONSE:

Winston Reid
1786 North Commerce Parkway
Weston, FL, 33326
954.217.7000



BOSCH00000095

INTERROGATORY NO. 2:

Identify the person(s) most knowledgeable about Your decision to adopt the
Mark.

RESPONSE:

Winston Reid
1786 North Commerce Parkway
Weston, FL, 33326
954.217.7000

INTERROGATORY NO. 3:

Identify the person(s) most knowledgeable about Your decision to file the
Application to register the Mark.

RESPONSE:

Winston Reid
1786 North Commerce Parkway
Weston, FL, 33326
954.217.7000

INTERROGATORY NO. 4:

Identify the person(s) most knowledgeable about Your past, present, and planned advertising and promotion of goods bearing the Mark in the United States

RESPONSE:

Winston Reid

1786 North Commerce Parkway

Weston, FL, 33326

954.217.7000

INTERROGATORY NO. 5:

Identify the person(s) most knowledgeable about Your past, present, and planned sale of goods bearing the Mark in the United States.

RESPONSE:

Winston Reid

1786 North Commerce Parkway

Weston, FL, 33326

954.217.7000

INTERROGATORY NO. 6:

Identify each type of product You have sold, are selling, or plan to sell bearing the Mark in the United States.

RESPONSE:

Mobile Phones, USB Dongles, MIFI, LTE CPE, 3G/4G Tablets

INTERROGATORY NO. 7:

For each product identified in response to Interrogatory No. 6, identify the channels of trade and specific outlets through which You market and sell, or plan to market and sell, each product.

RESPONSE:

Mobile Operators, Distributors, Online.

INTERROGATORY NO. 8:

Explain in detail when and how You first became aware of Bosch's Magneto Design Mark.

RESPONSE:

Seen the mark on certain kitchen appliances in the past however became more familiar after opposition was filed.

INTERROGATORY NO. 9:

Identify each third-party trademark that You believe is similar in terms of appearance, connotation, and commercial impression to Bosch's Magneto Design Mark, and is used in connection with goods or services similar to those covered by Bosch's Registration Nos.

2,051,819; 4,315,252; 4,412,647; or 2,433,397

RESPONSE:

Objection. This Interrogatory is unduly burdensome and not reasonably calculated to lead to the discovery of admissible evidence.

INTERROGATORY NO. 10:

Identify all instances when a person has referred to any relationship, sponsorship or affiliation (or lack thereof) between You and Bosch, or between Your products and Bosch's products.

Mark.

RESPONSE:

Never

INTERROGATORY NO. 11:

Identify all studies, investigations, or searches conducted by You or on Your behalf to determine the availability of the Mark for use and registration in the United States.

RESPONSE:

USPTO .GOV

INTERROGATORY NO. 12:

Identify all previous lawsuits or proceedings in which You have been involved regarding trademarks service marks, or trade dress.

RESPONSE:

None

INTERROGATORY NO. 13:

Identify all goods with respect to which You had a bona fide intent to use the Mark on the Application filing date.

RESPONSE:

Mobile phones, Tablets, MIFI, CPE

INTERROGATORY NO. 14:

If You intend to rely upon the opinion of an expert in this action, provide the information called for in Fed. R. Civ. P. 26(a)(2)(A) and (B) for each expert

RESPONSE:

None

INTERROGATORY NO. 15:

Identify all persons who participated in the preparation or filing of the Application, including providing information for use in preparing the Application.

RESPONSE:

Amanda Harke

Research and Applications Manager

The Trademark Company, PLLC

2703 Jones Franklin Road, Suite 206

Cary, NC 27518

Phone (800) 906-8626 x103

INTERROGATORY NO. 16:

Identify all persons who participated in any way in the preparation of the answers to any of these interrogatories and/or responses to Bosch's request for production or requests for admission in this proceeding, including the nature of participation of each such person

RESPONSE:

Winston Reid

1786 North Commerce Parkway

Weston, FL, 33326

954.217.7000

Dated: May 30, 2017

Respectfully submitted,

WGI Telecom Inc,

By:

A handwritten signature in black ink, appearing to read 'Winston Reid', is written over a horizontal line. The signature is stylized and somewhat illegible.

Winston Reid

1789 North Commerce Parkway

Weston, FL, 33326

(954) 217-7000

CERTIFICATE OF SERVICE

I hereby certify that a copy of **WGI TELECOMS'S ANSWER TO ROBERT BOSCH GMBH'S FIRST SET OF REQUESTS FOR PRODUCTION** was served upon the following by email:

Jessica A. Ekhoﬀ
200 South Wacker Drive
Suite 2900
Chicago, Illinois 60606
(312) 554-8000

JAE@pattishall.com

TC@pattishall.com

BOSCH TRIAL

EXHIBIT 10

UNITED STATES PATENT AND TRADEMARK OFFICE TRADEMARK TRIAL AND
APPEAL BOARD

In the matter of Application Serial No. 86/403,265

WGI Telecom Inc)	
)	
Applicant,)	
)	
v.)	Opposition No. 91,225,003
)	
Robert Bosch GmbH.)	
)	
Opposer.)	

WGI TELECOM INC'S RESPONSE TO ROBERT BOSCH GMBH'S FIRST SET OF
INTERROGATORIES

INTERROGATORY NO. 1:

Identify the person(s) most knowledgeable about Your creation and design of the Mark.

RESPONSE:

Winston Reid
1786 North Commerce Parkway
Weston, FL, 33326
954.217.7000



BOSCH00000095

INTERROGATORY NO. 2:

Identify the person(s) most knowledgeable about Your decision to adopt the
Mark.

RESPONSE:

Winston Reid
1786 North Commerce Parkway
Weston, FL, 33326
954.217.7000

INTERROGATORY NO. 3:

Identify the person(s) most knowledgeable about Your decision to file the
Application to register the Mark.

RESPONSE:

Winston Reid
1786 North Commerce Parkway
Weston, FL, 33326
954.217.7000

INTERROGATORY NO. 4:

Identify the person(s) most knowledgeable about Your past, present, and planned advertising and promotion of goods bearing the Mark in the United States

RESPONSE:

Winston Reid

1786 North Commerce Parkway

Weston, FL, 33326

954.217.7000

INTERROGATORY NO. 5:

Identify the person(s) most knowledgeable about Your past, present, and planned sale of goods bearing the Mark in the United States.

RESPONSE:

Winston Reid

1786 North Commerce Parkway

Weston, FL, 33326

954.217.7000

INTERROGATORY NO. 6:

Identify each type of product You have sold, are selling, or plan to sell bearing the Mark in the United States.

RESPONSE:

Mobile Phones, USB Dongles, MIFI, LTE CPE, 3G/4G Tablets

INTERROGATORY NO. 7:

For each product identified in response to Interrogatory No. 6, identify the channels of trade and specific outlets through which You market and sell, or plan to market and sell, each product.

RESPONSE:

Mobile Operators, Distributors, Online.

INTERROGATORY NO. 8:

Explain in detail when and how You first became aware of Bosch's Magneto Design Mark.

RESPONSE:

Seen the mark on certain kitchen appliances in the past however became more familiar after opposition was filed.

INTERROGATORY NO. 9:

Identify each third-party trademark that You believe is similar in terms of appearance, connotation, and commercial impression to Bosch's Magneto Design Mark, and is used in connection with goods or services similar to those covered by Bosch's Registration Nos.

2,051,819; 4,315,252; 4,412,647; or 2,433,397

RESPONSE:

Objection. This Interrogatory is unduly burdensome and not reasonably calculated to lead to the discovery of admissible evidence.

INTERROGATORY NO. 10:

Identify all instances when a person has referred to any relationship, sponsorship or affiliation (or lack thereof) between You and Bosch, or between Your products and Bosch's products.

Mark.

RESPONSE:

Never

INTERROGATORY NO. 11:

Identify all studies, investigations, or searches conducted by You or on Your behalf to determine the availability of the Mark for use and registration in the United States.

RESPONSE:

USPTO .GOV

INTERROGATORY NO. 12:

Identify all previous lawsuits or proceedings in which You have been involved regarding trademarks service marks, or trade dress.

RESPONSE:

None

INTERROGATORY NO. 13:

Identify all goods with respect to which You had a bona fide intent to use the Mark on the Application filing date.

RESPONSE:

Mobile phones, Tablets, MIFI, CPE

INTERROGATORY NO. 14:

If You intend to rely upon the opinion of an expert in this action, provide the information called for in Fed. R. Civ. P. 26(a)(2)(A) and (B) for each expert

RESPONSE:

None

INTERROGATORY NO. 15:

Identify all persons who participated in the preparation or filing of the Application, including providing information for use in preparing the Application.

RESPONSE:

Amanda Harke

Research and Applications Manager

The Trademark Company, PLLC

2703 Jones Franklin Road, Suite 206

Cary, NC 27518

Phone (800) 906-8626 x103

INTERROGATORY NO. 16:

Identify all persons who participated in any way in the preparation of the answers to any of these interrogatories and/or responses to Bosch's request for production or requests for admission in this proceeding, including the nature of participation of each such person

RESPONSE:

Winston Reid

1786 North Commerce Parkway

Weston, FL, 33326

954.217.7000

Dated: May 30, 2017

Respectfully submitted,

WGI Telecom Inc,

By: 

Winston Reid

1789 North Commerce Parkway

Weston, FL, 33326

(954) 217-7000

CERTIFICATE OF SERVICE

I hereby certify that a copy of **WGI TELECOMS'S ANSWER TO ROBERT BOSCH GMBH'S FIRST SET OF REQUESTS FOR PRODUCTION** was served upon the following by email:

Jessica A. Ekhoﬀ
200 South Wacker Drive
Suite 2900
Chicago, Illinois 60606
(312) 554-8000

JAE@pattishall.com

TC@pattishall.com

BOSCH TRIAL

EXHIBIT 11

**UNITED STATES PATENT AND TRADEMARK OFFICE
TRADEMARK TRIAL AND APPEAL BOARD**

In the matter of Application Serial No. 86/403,265

Robert Bosch GmbH,)	
)	
Opposer,)	
)	
v.)	Opposition No. 91,225,003
)	
WGI Telecom Inc.)	
)	
Applicant.)	

ROBERT BOSCH GMBH'S FIRST SET OF REQUESTS FOR ADMISSION

In accordance with Rule 36 of the Federal Rules of Civil Procedure and Rule 2.120(a) of the Trademark Rules of Practice, Opposer, Robert Bosch GmbH, requests that Applicant, WGI Telecom Inc., answer each of the requests for admission set forth below, subject to the following definitions and instructions:

DEFINITIONS AND INSTRUCTIONS

The following definitions and instructions apply to these requests for admission:


A. As used herein, the term "Bosch" means Robert Bosch GmbH, its predecessors in interest, related organizations, and the officers, directors, employees, agents and representatives thereof.

B. As used herein, the term "You," "Your," or "WGI" means WGI Telecom Inc., its predecessors in interest, its subsidiary and related organizations, and the officers, directors, employees, agents and representatives thereof.

C. As used herein, the term “Mark” refers to the mark that is the subject of United States Application No. 86/403,265, namely,  .

D. As used herein, the “Application” shall refer to Your United States Application No. 86/403,265.

E. As used herein, the term “Magneto Design Mark” refers to the mark that is the subject of Robert Bosch GmbH’s United States Registration Nos. 2,051,819; 4,315,252 and

4,412,647, namely,  .

F. As used herein, the words “and” and “or” shall be construed disjunctively or conjunctively as necessary in order to bring within the scope of the request all responses which might otherwise be construed to be outside its scope.

G. As used herein, the singular shall always include the plural and the present tense shall always include the past tense, and vice versa.

REQUESTS FOR ADMISSION

1. Admit that You did not have a bona fide intent to use the Mark in connection with computer terminals on the date You filed the Application.

2. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with computer terminals on the date You filed the Application.

3. Admit that You do not currently have a bona fide intent to use the Mark in connection with computer terminals.

4. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with computer terminals.
5. Admit that You did not have a bona fide intent to use the Mark in connection with modems on the date You filed the Application.
6. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with modems on the date You filed the Application.
7. Admit that You do not currently have a bona fide intent to use the Mark in connection with modems.
8. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with modems.
9. Admit that You did not have a bona fide intent to use the Mark in connection with netbooks on the date You filed the Application.
10. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with netbooks on the date You filed the Application.
11. Admit that You do not currently have a bona fide intent to use the Mark in connection with netbooks.
12. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with netbooks.
13. Admit that You did not have a bona fide intent to use the Mark in connection with tablet computers on the date You filed the Application.
14. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with tablet computers on the date You filed the Application.

15. Admit that You do not currently have a bona fide intent to use the Mark in connection with tablet computers.

16. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with tablet computers.

17. Admit that You did not have a bona fide intent to use the Mark in connection with cell phones on the date You filed the Application.

18. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with cell phones on the date You filed the Application.

19. Admit that You do not currently have a bona fide intent to use the Mark in connection with cell phones.

20. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with cell phones.

21. Admit that You did not have a bona fide intent to use the Mark in connection with digital phones on the date You filed the Application.

22. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with digital phones on the date You filed the Application.

23. Admit that You do not currently have a bona fide intent to use the Mark in connection with digital phones.

24. Admit that You have no documents reflecting a bona fide intent to use the Mark in connection with digital phones.

25. Admit that the Mark and the Magneto Design Mark are similar in appearance, connotation, and commercial impression.

26. Admit that the goods covered by the Application are similar to the goods and services covered by Bosch's Registration Nos. 2,051,819; 4,315,252; 4,412,647; or 2,433,397.

27. Admit that the goods covered by the Application are likely to be sold in the same channels of trade as the goods and services covered by Bosch's Registration Nos. 2,051,819; 4,315,252; 4,412,647; or 2,433,397.

28. Admit that the goods covered by the Application are likely to be sold to the same types of consumers as the goods and services covered by Bosch's Registration Nos. 2,051,819; 4,315,252; 4,412,647; or 2,433,397.

29. Admit that You are not aware of any third-party trademarks that are similar in terms of appearance, connotation, and commercial impression to the Magneto Design Mark.

30. Admit that You were aware of the Magneto Design Mark when You filed the Application.

Dated: June 17, 2016

Respectfully submitted,

PATTISHALL, MCAULIFFE, NEWBURY,
HILLIARD & GERALDSON LLP

By: /s/ Jessica A. Ekhoﬀ
Thad Chaloemtiarana
Jessica A. Ekhoﬀ
200 South Wacker Drive
Suite 2900
Chicago, Illinois 60606
(312) 554-8000

Attorneys for Robert Bosch GmbH

CERTIFICATE OF SERVICE

I hereby certify that a copy of **ROBERT BOSCH GMBH'S FIRST SET OF REQUESTS FOR ADMISSION** was served upon the following by first-class mail, postage prepaid, on June 17, 2016, with a courtesy copy by email:

Winston Reid
WGI Telecom, Inc.
1786 North Commerce Parkway
Weston, FL 33326

wreid@wgitelecom.com

/s/ Jessica A. Ekhoff

BOSCH TRIAL

EXHIBIT 12

What is a Cell Phone?

And Why Are Cell Phones Called Cell Phones?

by [Russell Ware](#)
Updated July 04, 2018

A cell phone is any portable telephone which uses [cellular network](#) technology to make and receive calls. The name comes from the cell-like structure of these networks. There is some confusion about cell phones being a different thing to smartphones, but technically, every mobile phone, from the latest Android handset to the simplest feature phone, is a cell phone. It is all about the technology used to transmit your calls, rather than what the handset itself can or cannot do. As long as a phone can transmit a signal to a cellular network, it is a cell phone.

The term "cell phone" is interchangeable with the terms Cellular Phone and Mobile Phone. They all mean the same thing. The term [Smartphone](#) has come to mean a cell phone which offers more advanced features than just calls, [SMS messages](#), and basic organizer software. Often, when talking about mobile phones, cell phone is used to describe a simple feature phone, whilst smartphone is used to describe more advanced [touchscreen](#) phones.

The first commercially available cell phone was developed by Motorola between 1973 and 1983 and went on sale in the U.S. early in 1984. This huge 28 ounce (790 gram) cell phone, called the **DynaTAC 8000x**, cost \$3995.00 and needed to be charged after just thirty minutes of use. The DynaTAC 8000x is almost unrecognizable as a cell phone when compared to the devices we use today. It is estimated that there were over 5 billion cell phones in use at the end of 2012.

Cellular Networks

A cellular network, which gives cell phones their name, is made up of cellular masts or towers distributed across the country in a grid-like pattern. Each mast covers a relatively small region of the grid, usually around ten square miles, called a Cell. Large mobile phone [carriers](#) (AT&T, Sprint, Verizon, Vodafone, T-Mobile, etc.) erect and use their own cellular masts and therefore have control over the level of cellular coverage they can provide. Several such masts can be located on the same tower.

When you make a call on a cell phone, the signal travels through the air to the nearest mast or tower and is then relayed to a switching network and finally on to the handset of the person you are calling via the mast closest to them. If you are making a call whilst traveling, in a moving vehicle, for example, you may quickly move from the range of one cell tower to the range of another. No two adjoining cells use the same frequency, so as to avoid interference, but the transition between cellular mast areas will normally

be seamless.

Cellular Coverage

In some countries, cellular coverage is almost total if you are with one of the large national carriers. In theory anyway. As you might expect, cellular coverage in built-up areas is usually better than in more rural areas. Areas where there is little or no coverage are normally places where there is poor access, or areas where there is little benefit to the cell carriers (sparsely populated areas, for example). If you are thinking of [changing your carrier](#), it is certainly worth checking to see what their coverage is like in your local area.

Cellular masts in built-up areas such as cities are often quite close together, sometimes as little as a few hundred feet, because buildings and other structures can interfere with the signal. In open areas, the distance between masts can be several miles as there is less to disrupt the radio waves. If the cellular signal is just very weak (rather than non-existent), it is possible for consumers to buy a cellular repeater or [network extender](#), both of which can amplify and boost a weak signal.

BOSCH TRIAL

EXHIBIT 13

Cellular Phone

Definition - What does *Cellular Phone* mean?

A cellular phone is a telecommunication device that uses radio waves over a networked area (cells) and is served through a cell site or base station at a fixed location, enabling calls to transmit wirelessly over a wide range, to a fixed landline or via [the Internet](#) .

In this networked system, the cellular phone is identified as a [mobile](#) system consisting of the equipment and SIM card that actually assigns the mobile telephone number.

A cellular phone is also known as a cellphone or mobile phone.

Techopedia explains *Cellular Phone*

Derived from the mobile communication concept of two-way radio technology, the cellular phone has steadily evolved and advanced. In the infancy of cellular phones, service was very rudimentary, and phones were extremely heavy--much like heavy battery packs. Today's handheld cellular phones are smaller and pocket-sized.

The seamless quality experienced in contemporary society is the result of many years of research and development. Modern cellular phones now meet market demands need with greater efficiency, while communicating without the bonds of wire-limiting mobility. The cellular phone has evolved from voice telephony to an instrument supporting many services other than voice calls, i.e., short message services and Internet access.

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Featured Q&A

More of your questions answered by our Experts (/experts)

BOSCH TRIAL

EXHIBIT 14

cell phone

or **cell-phone**

[**sel**-fohn]

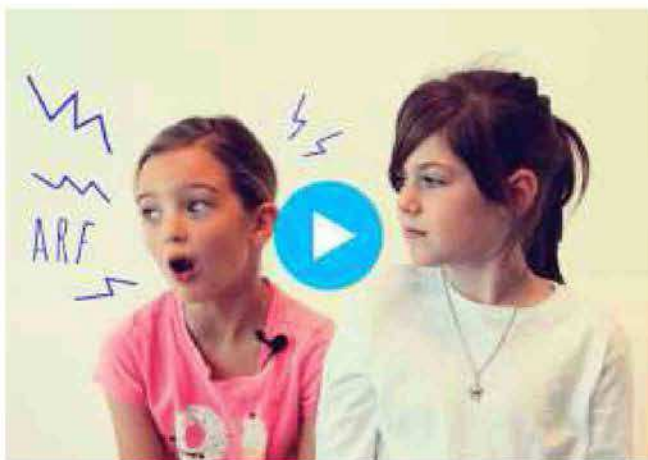
[Examples](#) [Word Origin](#)

[See more synonyms on Thesaurus.com](#)

noun

1. a wireless telephone using a system of low-powered radio transmitters, with each transmitter covering a distinct geographical area (**cell**), and computer equipment to switch a call from one area to another, thus enabling broad-scale portable phone service.
2. such a wireless telephone that has other functions, as text messaging or Internet access.
3. [mobile phone](#).

[Explore Dictionary.com](#)



These kids have the BEST interpretations of popular idioms

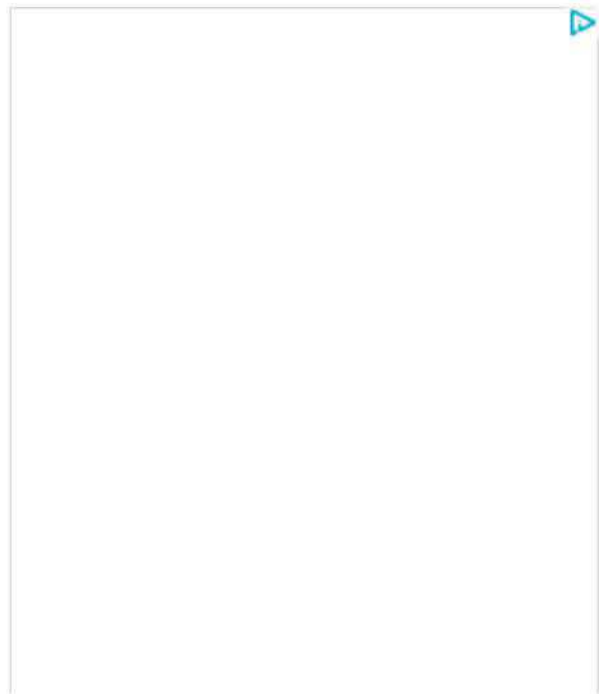
[Others Are Reading](#)



This kid redefined classic words and we are here for it.



Avoid these words. Seriously



BOSCH TRIAL

EXHIBIT 15

Tools



Prime Day Savings

Get up to \$20 off with
FREE 2-hour delivery

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Cite

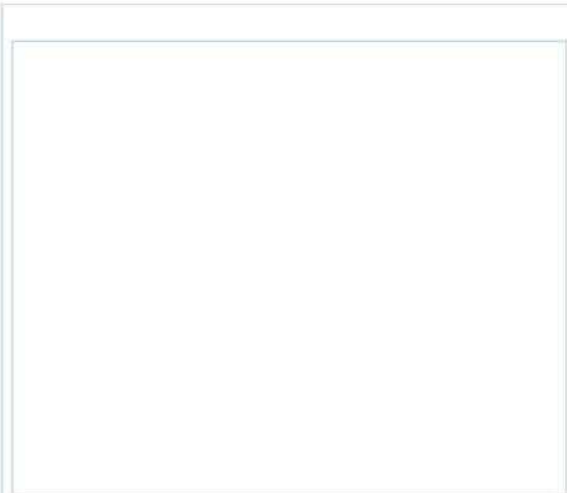
computer terminal

computer terminal, a device that enables a [computer](#) to receive or deliver data. Computer terminals vary greatly depending on the format of the data they handle. For example, a simple early terminal comprised a typewriter keyboard for input and a typewriter printing element for [alphanumeric](#) output. A more recent variation includes the keyboard for input and a televisionlike screen to display the output. The screen can be a [cathode-ray tube](#) or a gas plasma panel, the latter involving an ionized gas (sandwiched between glass layers) that glows to form dots which, in turn, connect to form lines. Such displays can present a variety of output, ranging from simple alphanumeric to complex graphic images used as design tools by architects and engineers. Portable terminals frequently use [liquid crystal](#) displays because of their low power requirements. The terminals of [pen-based computers](#) use a stylus to input handwriting on the screen. Touch-sensitive terminals accept input made by touching a pressure-sensitive panel in front of a menu displayed on the screen. Other familiar types of terminals include store checkout systems that deliver detailed printed receipts and use [laser](#) scanners to read the [barcodes](#) on packages, and automatic teller machines in banks.

See L. Tijerina, *Video Display Terminal Workstation Ergonomics* (1984).

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BOSCH TRIAL

EXHIBIT 16

Terminal

Definition - What does *Terminal* mean?

A terminal is an electronic communication hardware device that handles the input and display of data.

A terminal may be a PC or workstation connected to a network, Voice over Internet Protocol (VOIP) network endpoint, mobile data terminal such as a telematics device, or a text terminal, or textual language interface.

Techopedia explains *Terminal*


Terminals vary by required data type and format. Early terminals resembled typewriters. Current versions include input keyboards and output display screens.

Terminals are divided into the following three classes, according to their processing power:

- Intelligent Terminal: Includes main memory and CPU
- Smart Terminal (fat client): Equipped with robust data processing power, but has fewer processing capabilities than an intelligent terminal.
- Dumb Terminal (thin client): Relies on the host for processing

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BOSCH TRIAL

EXHIBIT 17

Computer terminal | encyclopedia article by TheFreeDictionary

https://encyclopedia.thefreedictionary.com/Computer+terminal

The leading convener advancing Alzheimer's research worldwide

Computer terminal

Also found in: [Dictionary](#), [Thesaurus](#), [Medical](#), [Legal](#), [Financial](#), [Acronyms](#), [Encyclopedia](#).

A **computer terminal** is an electronic or electromechanical **hardware** device that is used for entering data into, and displaying data from, a **computer** or a **computing** system. Early terminals were inexpensive devices but very slow compared to **punched cards** or **paper tape** for input, but as the technology improved and **video displays** were introduced, terminals pushed these older forms of interaction from the industry. A related development was timesharing systems, which evolved in parallel and made up for any inefficiencies of the user's typing ability with the ability to support multiple users on the same machine, each at their own terminal.

The function of a terminal is confined to display and input of data; a device with significant local programmable data processing capability may be called a "smart terminal" or **fat client**. A terminal that depends on the host computer for its processing power is called a "dumb terminal" or **thin client**. A personal computer can run **terminal emulator** software that replicates the function of a terminal, sometimes allowing concurrent use of local programs and access to a distant *terminal host* system.



The **DEC VT100**, a widely emulated computer terminal

History

The terminal of the first working programmable, fully automatic digital ^[1] Turing-complete^[2] computer, the Z3, had a keyboard and a row of lamps to show results.^[3]

Hard-copy terminals

Early user terminals connected to computers were electromechanical **teleprinters**/teletypewriters (TeleTYpewriter, TTY), such as the Teletype Model 33 ASR, originally used for **telegraphy** or the **Friden Flexowriter**. Later printing terminals such as the DECwriter LA30 were developed. However printing terminals were limited by the speed at which paper could be printed, and for interactive use the paper record was unnecessary.

By the early 1970s, many users in the computer industry realized that an affordable video data entry terminal could supplant the ubiquitous **punched cards** and permit new uses for computers that would be more interactive. The problem was that the amount of memory needed to store the information on a page of text was comparable to the memory in low end **minicomputers** then in use. Displaying the information at video speeds was also a challenge



A Teletype Model 33 ASR teleprinter, usable as a terminal

and the necessary control logic took up a rack worth of pre-**integrated circuit** electronics. One company announced plans to build a video terminal for \$15,000 and attracted a large backlog of orders, but folded when their engineering plans, which included fabricating their own ICs, proved too ambitious. Another approach involved the use of the **storage tube**, a specialized **CRT** developed by Tektronix that retained information written on it without the need to refresh.

The Datapoint 3300 from **Computer Terminal Corporation** was announced in 1967 and shipped in 1969, making it one of the earliest stand-alone display-based terminals. It solved the memory space issue mentioned above by using a digital shift-register design, and using only 72 columns rather than the later more common choice of 80.

Early VDUs

Early video computer displays were sometimes nicknamed "Glass TTYs" ("glass Teletypes") or "Visual Display Units" (VDUs), and used individual logic gates, with no **CPU** or very primitive LSI chips, yet quickly became extremely popular Input-Output devices on many different types of computer system once several suppliers gravitated to a set of common standards:

- **ASCII** character set (rather than, say, **EBCDIC** or anything specific to one company), but early/economy models often supported only capital letters (such as the original ADM-3, the **Data General** model 6052 – which could be upgraded to a 6053 with a lower-case character ROM – and the Heathkit H9)
- **RS-232** serial ports (25-pin, ready to connect to a modem, yet some manufacturer-specific pin usage extended the standard, e.g. for use with 20-mA current loops)
- 24 lines (or possibly 25 – sometimes a special status line) of 80 characters of text (sometimes with two character width settings).
- Some type of blinking cursor that can be positioned (with arrow keys and/or "home" and other direct cursor address setting codes).
- Implementation of at least 3 control codes: Carriage Return (Ctrl-M), Line-Feed (Ctrl-J), and Bell (Ctrl-G), but usually many more, such as Escape sequences to provide underlining, dim and/or reverse-video character highlighting, and especially to clear the display and position the cursor.

Starting with the **Datapoint 3300** in 1969, by the late 1970s and early 1980s, there were dozens of manufacturers of terminals, including **Lear-Siegler**, **ADDS**, **Data General**, **DEC**, **Hazeltine Corporation**, **Heath/Zenith**, Hewlett Packard, **IBM**, **Televideo**, and **Wyse**, many of which had incompatible command sequences (although many used the early ADM-3 as a starting point).

The great variations in the control codes between makers gave rise to software that identified and grouped terminal types so the system software would correctly display input forms using the appropriate control codes; In **Unix**-like systems the **termcap** or **terminfo** files, the `stty` utility, and the `TERM` environment variable would be used; in Data General's Business BASIC software, for example, at login-time a sequence of codes were sent to the terminal to try to read the cursor's position or the 25th line's contents using a sequence of different manufacturer's control code sequences, and the terminal-generated response would determine a single-digit number (such as 6 for Data General Dasher terminals, 4 for ADM 3A/5/11/12 terminals, 0 or 2 for TTY's with no special features) that would be available to programs to say which set of codes to use.

"Intelligent" terminals

An "intelligent" terminal does its own processing, usually implying a microprocessor is built in, but not all terminals with microprocessors did any real processing of input: the main computer to which it was attached would have to respond quickly to each keystroke. The term "intelligent" in this context dates from 1969.^[4]

Notable examples include the **IBM 2250** and **IBM 2260**, predecessors to the **IBM 3270** and introduced with System/360 in 1964.

From the introduction of the **IBM 3270**, and the DEC VT100 (1978), the user and programmer could notice significant advantages in VDU technology improvements, yet not all programmers used the features of the new terminals (**backward compatibility** in the VT100 and later **Televideo** terminals, for example, with "dumb terminals" allowed programmers to

continue to use older software).

Some dumb terminals had been able to respond to a few escape sequences without needing microprocessors: they used multiple **printed circuit boards** with many Integrated Circuits; the single factor that classed a terminal as "intelligent" was its ability to *process* user-input within the terminal—not interrupting the main computer at each keystroke—and send a block of data at a time (for example: when the user has finished a whole field or form). Most terminals in the early 1980s, such as ADM-3A, TVI912, Data General D2, DEC VT52, despite the introduction of ANSI terminals in 1978, were essentially "dumb" terminals, although some of them (such as the later ADM and TVI models) did have a primitive block-send capability.

The advance in microprocessors and lower memory costs made it possible for the terminal to handle editing operations such as inserting characters within a field that may have previously required a full screen-full of characters to be re-sent from the computer, possibly over a slow modem line. Around the mid 1980s intelligent terminals, costing less than most dumb terminals would have a few years earlier, could provide enough user-friendly local editing of data and send the completed form to the main computer. Providing even more processing possibilities, workstations like the **Televideo** TS-800 could run **CP/M-86**, blurring the distinction between terminal and Personal Computer.

Another of the motivations for development of the **microprocessor** was to simplify and reduce the electronics required in a terminal. That also made it practicable to load several "personalities" into a single terminal, so a Qume QVT-102 could emulate many popular terminals of the day, and so be sold into organizations that did not wish to make any software changes. Frequently emulated terminal types included:

- Lear Siegler **ADM-3A** and later models
- **Televideo** 910 to 950 (these models copied ADM3 codes and added several of their own, eventually being copied by Qume and others)
- **Digital Equipment Corporation VT52** and **VT100**
- **Data General** D1 to D3 and especially D200 and D210
- **Hazeltine Corporation** H1500
- Tektronix 4014
- **Wyse** W50, W60 and W99

The ANSI X3.64 escape code standard produced uniformity to some extent, but significant differences remained (for example, the **VT100**, **Heathkit** H19 in ANSI mode, **Televideo** 970, **Data General** D460, and Qume QVT-108 terminals all followed the ANSI standard, yet differences might exist of codes from **function keys**, what character attributes were available, block-sending of fields within forms, "foreign" character facilities, and handling of printers connected to the back of the screen).

Most terminals were connected to **minicomputers** or **mainframe computers** and often had a green or amber screen. Typically terminals communicate with the computer via a **serial port** via a **null modem** cable, often using an EIA **RS-232** or RS-422 or RS-423 or a current loop serial interface. **IBM** systems communicated over a **coaxial cable** using IBM's SNA protocol, but for many **DEC**, **Data General** and **NCR** (and so on) computers there were many visual display suppliers competing against the computer manufacturer for terminals to expand the systems. In fact, the instruction design for the **Intel 8008** was originally conceived at **Computer Terminal Corporation** as the processor for the **Datapoint 2200**.

Contemporary

While early IBM PCs had single color green screens, these screens were not terminals. The *screen* of a PC did not contain any character generation hardware; all video signals and video formatting were generated by the *video display card* in the PC, or (in most graphics modes) by the CPU and software. An IBM PC monitor, whether it was the green monochrome display or the 16-color display, was technically much more similar to an analog TV set (without a tuner) than to a terminal. With suitable **software** a PC could, however, emulate a terminal, and in that capacity it could be connected to a mainframe



or minicomputer. The Data General One could be booted into terminal emulator mode from its ROM. Eventually microprocessor-based personal computers greatly reduced the market demand for conventional terminals.

In the 1990s especially, "thin clients" and **X terminals** have combined economical local processing power with central, shared computer facilities to retain some of the advantages of terminals over personal computers:

Today, most PC **telnet** clients provide emulation of the most common terminal, the DEC **VT100**, using the **ANSI escape code** standard X3.64, or could run as **X terminals** using software such as **Cygwin/X** under **Microsoft Windows** or **X.Org Server** software under Linux.

Since the advent and subsequent popularization of the **personal computer**, few genuine hardware terminals are used to interface with computers today. Using the **monitor** and **keyboard**, modern operating systems like **Linux** and the BSD derivatives feature virtual consoles, which are mostly independent from the hardware used.

When using a **graphical user interface** (or GUI) like the **X Window System**, one's display is typically occupied by a collection of windows associated with various applications, rather than a single stream of text associated with a single process. In this case, one may use a **terminal emulator** application within the windowing environment. This arrangement permits terminal-like interaction with the computer (for running a **command line interpreter**, for example) without the need for a physical terminal device; it can even allow the running of *multiple* terminal emulators on the same device.

Capabilities

Text terminals

See also: Character-oriented terminal

A *text terminal*, or often just *terminal* (sometimes *text console*) is a serial computer interface for text entry and display. Information is presented as **an array of pre-selected formed characters**. When such devices use a video display such as a **cathode-ray tube**, they are called a "video display unit" or "visual display unit" (VDU) or "video display terminal" (VDT).

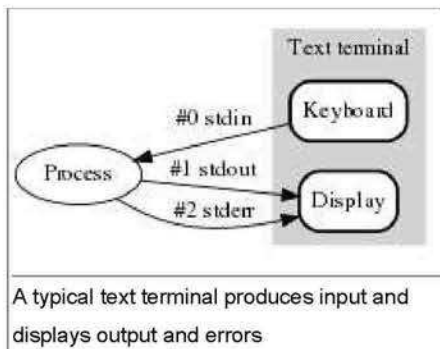
The **System console** is a text terminal used to operate a computer. Modern computers have a built-in keyboard and display for the console. Some **Unix-like** operating systems such as **Linux** and **FreeBSD** have virtual consoles to provide several text terminals on a single computer.

The fundamental type of application running on a text terminal is a **command line interpreter** or *shell*, which prompts for commands from the user and executes each command after a press of *Enter*. This includes **Unix shells** and some **interactive programming** environments. In a shell, most of the commands are small applications themselves.

Another important application type is that of the **text editor**. A text editor occupies the full area of display, displays one or more text documents, and allows the user to edit the documents. The text editor has, for many uses, been replaced by the **word processor**, which usually provides rich formatting features that the text editor lacks. The first word processors used text to communicate the structure of the document, but later word processors operate in a graphical environment and provide a **WYSIWYG** simulation of the formatted output.

Programs such as **Telnet** and **Minicom** control a **modem** and the local terminal to let the user interact with remote servers. On

A Televideo **ASCII** character mode terminal, using a microprocessor, manufactured around 1982



```

GNU nano 2.9.3      Nano Buffer      Nano Field
^M Nano'' is a [[text editor]] for [[Pico]] and [[Vim]]-like
editors, licensed under the [[GNU General Public License]]. It
is a [[free software]] clone of [[Pico text editor|Pico]],
the editor of the [[Free / Unix]] [[Unix]] mail client.
Nano aims to emulate the functionality and easy-to-use
interface of Pico, but does not have the tight raster
integration of the Pico-Pico package.

It was first created in [[2001]] under the name "TIP" ("TIP
isn't Pico") by Denis Alengrakis. His motivation was to create
a free software replacement for Pico, since neither it nor Pico
were distributed under a [[free software license]]. The name
was officially changed to Nano in [[January 2011]]. [[2005]]
because of a name conflict with another Unix program. In
[[February]], [[2001]], Nano became an official part of the
[[GNU]] project.

More recently, Nano has added some features that Pico lacks,
including colored text, [[regular expression]] search and
Get Help, WriteOut, Good File, Prev Page, Quit Text, Cur Pos,
Text, Justify, Where To, Next Page, Undo, To, To Spell

Nano text editor running in the xterm
terminal emulator
  
```

the [Internet](#), [telnet](#) and [ssh](#) work similarly.

In the simplest form, a text terminal is like a file. Writing to the file displays the text and reading from the file produces what the user enters. In [unix-like](#) operating systems, there are several character special files that correspond to available text terminals. For other operations, there are special [escape sequences](#), [control characters](#) and `termios` [functions](#) that a program can use, most easily via a library such as [ncurses](#). For more complex operations, the programs can use terminal specific [ioctl](#) system calls. For an application, the simplest way to use a terminal is to simply write and read text strings to and from it sequentially. The output text is scrolled, so that only the last several lines (typically 24) are visible. [Unix](#) systems typically buffer the input text until the [Enter](#) key is pressed, so the application receives a ready string of text. In this mode, the application need not know much about the terminal. For many interactive applications this is not sufficient. One of the common enhancements is *command line editing* (assisted with such libraries as `readline`); it also may give access to command history. This is very helpful for various interactive [command line interpreters](#).

Even more advanced interactivity is provided with *full-screen* applications. Those applications completely control the screen layout; also they respond to key-pressing immediately. This mode is very useful for [text editors](#), [file managers](#) and [web browsers](#). In addition, such programs control the color and brightness of text on the screen, and decorate it with underline, blinking and special characters (e.g. [box drawing characters](#)). To achieve all this, the application must deal not only with plain text strings, but also with [control characters](#) and [escape sequences](#), which allow to move [cursor](#) to an arbitrary position, to clear portions of the screen, change colors and display special characters, and also respond to [function keys](#). The great problem here is that there are so many different terminals and [terminal emulators](#), each with its own set of [escape sequences](#). In order to overcome this, special libraries (such as [curses](#)) have been created, together with terminal description databases, such as [Termcap](#) and [Terminfo](#).

Dumb terminals

Dumb terminals are those that can interpret a limited number of control codes ([CR](#), [LF](#), etc.) but do not have the ability to process special [escape sequences](#) that perform functions such as clearing a line, clearing the screen, or controlling [cursor](#) position. In this context dumb terminals are sometimes dubbed *glass Teletypes*, for they essentially have the same limited functionality as does a mechanical [Teletype](#). This type of dumb terminal is still supported on modern [Unix-like](#) systems by setting the [environment variable](#) `TERM` to *dumb*. *Smart* or *intelligent* terminals are those that also have the ability to process escape sequences, in particular the [VT52](#), [VT100](#) or [ANSI escape sequences](#).

Graphical terminals

A graphical terminal can display images as well as text. Graphical terminals are divided into [vector-mode](#) terminals, and [raster mode](#).

A vector-mode display directly draws lines on the face of a [cathode-ray tube](#) under control of the host computer system. The lines are continuously formed, but since the speed of electronics is limited, the number of concurrent lines that can be displayed at one time is limited. Vector-mode displays were historically important but are no longer used. Practically all modern graphic displays are raster-mode, descended from the picture scanning techniques used for [television](#), in which the visual elements are a rectangular array of [pixels](#). Since the raster image is only perceptible to the human eye as a whole for a very short time, the raster must be refreshed many times per second to give the appearance of a persistent display. The electronic demands of refreshing display memory meant that graphic terminals were developed much later than text terminals, and initially cost much more.

Most terminals today are graphical, that is, they can show images on the screen. The modern term for graphical terminal is "[thin client](#)". A thin client typically uses a protocol like [X11](#) for [Unix](#)-terminals, or [RDP](#) for Microsoft Windows. The bandwidth needed depends on the protocol used, the resolution, and the [color depth](#).

Modern graphic terminals allow display of images in color, and of text in varying sizes, colors, and [fonts](#) (type faces).

In the early 1990s an industry consortium attempted to define a standard, [AlphaWindows](#), that would allow a single CRT

screen to implement multiple windows, each of which was to behave as a distinct terminal. Unfortunately like **I2O** this suffered from being run as a closed standard: non-members were unable to obtain even minimal information and there was no realistic way a small company or independent developer could join the consortium. Possibly because of this the standard disappeared without trace.

Emulation

A **terminal emulator** is a piece of software that emulates a text terminal. In the past, before the widespread use of local area networking and broadband internet access, many computers would use a serial access program to communicate with other computers via **telephone line** or serial device.

When the first **Macintosh** was released, a program called **MacTerminal** was used to communicate with many computers, including the IBM PC.

Dec Terminal was one of the first terminal programs for the popular **Altair**.

The **Win32 console** on Windows does not emulate a physical terminal that supports **escape sequences**^[5] so **SSH** and **Telnet** programs (for logging in textually to remote computers) for Windows, including the Telnet program bundled with some versions of Windows, often incorporate their own code to process escape sequences. The terminal emulators on most **Unix-like** systems, such as, for example, **xterm** and Terminal, do emulate physical terminals including support for escape sequences; e.g. xterm can emulate the **VT220** and Tektronix 4010 hardware terminals.

Modes

Terminals can operate in various modes, relating to when they send input typed by the user on the keyboard to the receiving system (whatever that may be):

- Character mode (a.k.a. character-at-a-time mode): In this mode, typed input is sent immediately to the receiving system.^[6]
- Line mode (a.k.a. line-at-a-time mode): In this mode, the terminal provides a local line editing function, and sends an entire input line, after it has been locally edited, when the user presses a `return` key.^[6] A so-called "line mode terminal" operates solely in this mode.^[7]
- Block mode (a.k.a. screen-at-a-time mode): In this mode, the terminal provides a local full-screen data function. The user can enter input into multiple fields in a form on the screen (defined to the terminal by the receiving system), moving the cursor around the screen using keys such as `Tab` and the arrow keys and performing editing functions locally using `insert`, `delete`, `← Backspace` and so forth. The terminal sends only the completed form, consisting of all the data entered on the screen, to the receiving system when the user presses an `↵ Enter` key.^{[8][9][6]}

There is a distinction between the `return` and the `↵ Enter` keys. In some multiple-mode terminals, that can switch between modes, pressing the `↵ Enter` key when *not* in block mode does not do the same thing as pressing the `return` key. Whilst the `return` key will cause an input line to be sent to the host in line-at-a-time mode, the `↵ Enter` key will rather cause the terminal to transmit the contents of the character row where the cursor is currently positioned to the host, host-issued prompts and all.^[8]

Different computer **operating systems** require different degrees of mode support when terminals are used as computer terminals. The POSIX terminal interface, as provided by Unix and POSIX-compliant operating systems, does not accommodate block-mode terminals at all, and only rarely requires the terminal *itself* to be in line-at-a-time mode, since the operating system is required to provide canonical input mode, where the terminal device driver in the operating system *emulates* local echo in the terminal, and performs line editing functions at the host end. Most usually, and especially so that the host system can support non-canonical input mode, terminals for POSIX-compliant systems are always in character-at-a-time mode. In contrast, **IBM 3270** terminals connected to **MVS** systems are always required to be in block mode.^{[10][11][12][13]}

See also

- [Terminal server](#)
- [IBM 3270](#)
- [IBM 5250](#)
- [HP 2640](#)
- [Tektronix 4014](#)
- [Virtual console \(PC\)](#)
- [System console](#)
- [Remote Job Entry](#)
- [IBM 2780](#)
- [IBM 3780](#)
- [TV Typewriter](#)
- [Blit \(computer terminal\)](#)
- [Green screen display](#)
- [Minitel](#)
- [Thin client](#)
- [X terminal](#)
- [Communication endpoint](#)
- [Data terminal equipment](#)
- [End system](#)
- [Host \(network\)](#)
- [Node \(networking\)](#)
- [POSIX terminal interface](#)
- [Terminal capabilities](#)

Notes

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- ⁵ ^ "[How to make win32 console recognize ANSI/VT100 escape sequences?](#)". *Stack Overflow*.
- ⁶ ^ ^a ^b ^c [Bolthouse 1996](#), p. 18.
- ⁷ ^ [Bangia 2010](#), p. 324.
- ⁸ ^ ^a ^b [Diercks 2002](#), p. 2.
- ⁹ ^ [Gofton 1991](#), p. 73.
- ¹⁰ ^ [Raymond 2004](#), p. 72.
- ¹¹ ^ [Burgess 1988](#), p. 127.
- ¹² ^ [Topham 1990](#), p. 77.
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External links

- [The Terminals Wiki](#), an encyclopedia of computer terminals.

- [Text Terminal HOWTO](#)
- [The TTY demystified](#)
- [Video Terminal Information](#) at the [Wayback Machine](#) (archived 23 May 2010)
- [Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity \(R&TTE Directive\)](#)

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BOSCH TRIAL

EXHIBIT 18

Definition of 'computer'

Learner: computerImageVideoAmerican: computerEnglish: computerExample sentencesTrendsTranslations
Word Frequency

computer

(kəmˈpyʊtər)

Word forms: computers

1. countable noun [also by/on N]

A computer is an electronic machine that can store and deal with large amounts of information.

The data are then fed into a computer.

The company installed a \$650,000 computer system.

2. See also [personal computer](#)

COBUILD Advanced English Dictionary. Copyright © HarperCollins Publishers

Image of 'computer'



© Luisa Leal Photography, shutterstock

Video: pronunciation of 'computer'



Word Frequency

computer in American

(kəmˈpjʊtər ; kəmˈpyʊtət̩ˈər)

noun

1.
a person who computes
 2.
a device used for computing; specif., an electronic machine which, by means of stored instructions and information, performs [rapid](#), often [complex calculations](#) or [compiles](#), [correlates](#), and [selects](#) data; [now](#), esp., [digital computer](#)
see also [analog computer](#)
- Webster's New World College Dictionary, 4th Edition. Copyright © 2010 by Houghton Mifflin Harcourt. All rights reserved.
Word Frequency

computer in British

(kəm'pjʊ:tə)

noun

1.
 - a.
a device, usually [electronic](#), that processes [data according](#) to a set of [instructions](#). The [digital](#) computer [stores](#) data in [discrete](#) units and performs [arithmetical](#) and [logical operations](#) at very high [speed](#). The [analog](#) computer has no [memory](#) and is [slower](#) than the digital computer but has a [continuous](#) rather than a discrete [input](#). The [hybrid](#) computer [combines](#) some of the [advantages](#) of digital and analog computers
See also [digital computer](#), [analog computer](#), [hybrid computer](#)
 - b.
(as modifier)
computer technology
► Related prefix: cyber-
 2.
a person who [computes](#) or [calculates](#)
- Collins English Dictionary. Copyright © HarperCollins Publishers
Ad



Example sentences containing 'computer'

These examples have been automatically selected and may contain sensitive content. [Read more...](#)

BOSCH TRIAL

EXHIBIT 19



(https://twitter.com/Open_Connection)

THE CONNECTION (/RESOURCES/)



Analog vs. Digital Phone

You can get phone service for your home or business with either analog phone or digital phone. The two services use different technologies and methods to carry and deliver voice signals.

So how do these services work and what's the difference between analog and digital phone?

Analog phone service uses a subscriber loop

Analog phone is also known as Plain Old Telephone Service (POTS). Each subscriber has a phone number assigned to them, which others can use to make calls to that subscriber. Users are connected through a subscriber loop made of copper wiring. This loop connects a home or business to a central switch office.

When a call is made, the voice signals are converted by the analog phone system into electronic signals. Then, these signals are carried over the telephone line to the final destination – another subscriber's home or business.

There are two main advantages to a traditional landline. First, even if there is a power outage, you will still have phone service. Second, in case of an emergency, 911 can determine your location when you call.

Digital phone service provides a higher quality sound

Digital phone service uses cable or a digital phone network to make phone calls. The voice signals are compressed and unnecessary frequency bands are taken out as the audio travels. This creates a better sound quality, compared to analog phone service.

Oftentimes, digital phone service comes with advanced features, such as call forwarding, voicemail and conference, or 3-way, calling. Like analog phone, digital phone service is bidirectional – voice signals can travel both to and from a phone.

Learn more about the difference between analog and digital phone service

Both analog phone service and digital phone service allows for communication between two homes or businesses. Call to learn more about the phone service you can get for your home.

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EXHIBIT 20



Managed Voice

Managed Internet

Managed Network



Partner Program

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Digital vs. VOIP Phone Systems

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Posted on Fri, Mar 14, 2014 @ 10:00 AM by [Carlos Lahrssen](#)



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Many years ago, phones were analog systems. They consisted of voice circuits made of copper wire, and transmitted voices as electrical signals. In recent decades, analog phones were replaced with digital phones, which are still traditional phone systems that make calls through phone lines.

Voice over internet protocol, or [VoIP](#) lines, send voice data through a data connection (the internet) rather than over phone lines. Older VoIP systems used on-premises hardware for managing calls, but in recent years, software-based VoIP solutions have become much more popular.

Software-controlled VoIP systems are managed in the cloud, offer advanced [features](#), and **can integrate** with other business systems like CRM and social networking. Here's what you should know about digital vs. VoIP phone systems:

Wiring - With a VoIP phone system, **you only use half the wiring required for a digital phone system**. Digital phones require both a voice and a data cable, whereas with VoIP systems, you plug the phone into an Ethernet wall plate, and then plug a computer into the back of the phone, so there's only one cable to the desk with VoIP systems.

Cost - VoIP call costs are generally lower than costs with digital phones. Moreover, the hardware required for a VoIP system is generally less expensive too. International calls on digital systems cost around 90% more than on VoIP systems. If your business makes a lot of international calls, VoIP will save you money on these calls.

Power - Digital phones use very little power, and that is drawn from the phone line itself. In contrast, VoIP phones have to be connected to an AC source, or they have to have a converter called a Power Over Ethernet (POE) injector, which allows the phones to draw power and data through the same network cable.

Bandwidth - With a VoIP system, bandwidth is shared amongst computers and phones in the office. If bandwidth is inadequate, phones or computers may perform more slowly. VoIP phone systems can be fitted with backup internet connections, so that if your office's internet goes out, the phone system won't go out with it. Digital phones are unaffected by bandwidth, so with a digital phone system, you won't have to worry about the possible need to upgrade your broadband connection.

Mobility - VoIP phones are more portable than digital phones. With a VoIP phone system moving a phone is simply a matter of physically moving a phone to another connector ▲ the phone number follows automatically. This makes office moves much simpler. With digital phones, transferring phones requires getting a technician to transfer the numbers to the new

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maintenance - with digital phones, maintenance is required on-site. However, with VoIP phones, the system can be accessed remotely by anyone with administrator access privileges. With hosted VoIP systems, software upgrades happen automatically, so on-site maintenance is practically nonexistent. Furthermore, with VoIP systems, adding new lines can be done easily and quickly, without having to have more wiring installed.

Final Verdict: Digital vs. VoIP Phone Systems

If you need a couple of simple phone lines and don't require many features, or if you want to keep voice data separate from the rest of your organization's data, then a digital phone system may be right for you.



However, if you want a range of **enterprise-level phone features for your small business**, and if you want a phone system that is flexible, scalable, and easy to move, then VoIP is the way to go.

VoIP systems are also superior if you have remote workers, telecommuters, or traveling employees. With hosted VoIP systems, all the hardware except the phone handsets is located with your [hosted VoIP](#) provider, so up-front investment is low, and getting started is a matter of minutes or hours rather than days or weeks with traditional phone systems.

At [nexogy](#), we provide hosted VoIP phone systems that are customized to client needs. With hosted VoIP, even very small businesses have a wide range of enterprise-level features, and accommodating remote workers is a snap. VoIP phone systems like those provided by Nexogy let businesses get more features for less money, and allow small start-ups to compete more effectively and run more efficiently.

Photo Credits: [Donovan Graen / flickr.com](#), [scottchan / freedigitalphotos.net](#)



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EXHIBIT 21

Digital phone | Article about digital phone by The Free Dictionary

https://encyclopedia2.thefreedictionary.com/digital+phone

Highest impact nonprofit Alzheimer's research organization—in the world.
-Thomson Reuters InCites

digital phone

Also found in: [Dictionary](#), [Financial](#).

Related to digital phone: [Cordless phone](#), [Internet phone](#), [VoIP phone](#)

digital phone A desktop or cellular phone that uses a digital transmission technology. Inhouse PBX-based and key systems use digital phones that convert sound into digital at the handset. Digital cellphones come in several varieties. See [digital cellphone](#) and [smartphone](#).

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EXHIBIT 22

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Who We Are



[Lowell Heddings](#) is the founder and Editor-in-Chief of How-To Geek. He spends all his free time making sure this site can bring you fresh geekery on a daily basis, and has been doing so for over eleven years.

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[Walter Glenn](#) is the Managing Editor of How-To Geek, as well as a long time computer geek and tech writer. Though he’s mostly a Windows and gadget guy, he has a fondness for anything tech.

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[Jason Fitzpatrick](#) is a warranty-voiding DIYer who spends his days cracking opening cases and wrestling with code so you don’t have to. If it can be modded, optimized, repurposed, or torn apart for fun

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EXHIBIT 23

REPORT AD

Home

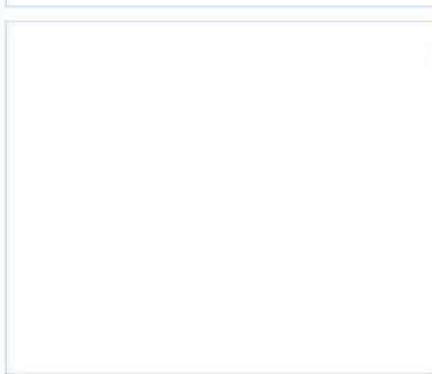
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EXHIBIT 24



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Technology is a like a wire that runs through our lives. When it works, it connects us to friends and family, powers our careers, and keeps us entertained. When it doesn't, things can get confusing, tangled, and frustrating, fast. That's why we made Lifewire, a new site to help you get the most out of your tech, so you can get the most out of your life.

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Lifewire, Tech Untangled.

BOSCH TRIAL

EXHIBIT 25

What Is a Modem in Computer Networking?

Dial-up modems gave way to high-speed broadband modems

by [Bradley Mitchell](#)

Updated July 02, 2018

A modem is a hardware device that allows a computer to send and receive data over a telephone line or a cable or satellite connection. In the case of transmission over an analog telephone line, which was once the most popular way to access the internet, the modem converts data between analog and digital formats in real time for two-way network communication. In the case of the high-speed digital modems popular today, the signal is much simpler and doesn't require the analog-to-digital conversion.

History of Modems

The first devices called modems converted digital data for transmission over analog telephone lines. The speed of these modems was historically measured in baud (a unit of measurement named after Emile Baudot), although as computer technology developed, these measures were converted into [bits per second](#). The first commercial modems supported a speed of 110 bps and were used by the U.S. Department of Defense, news services, and some large businesses.

Modems gradually became familiar to consumers in the late '70s through the '80s as public message boards and news services like CompuServe were built on early internet infrastructure. Then, with the explosion of the World Wide Web in the mid and late 1990s, dial-up modems emerged as the primary form of internet access in many households around the world.

Dial-Up Modems

Traditional modems used on [dial-up networks](#) convert data between the analog form used on telephone lines and the digital form used on computers. An external dial-up modem plugs into a computer at one end and a telephone line on the other end. In the past, some computer makers integrated internal dial-up modems into their computer designs.

Modern dial-up network modems transmit data at a maximum rate of 56,000 bits per second. However, inherent limitations of public telephone networks often limit modem data rates to 33.6 Kbps or lower in practice.

When connecting to a network via a dial-up modem, the devices customarily relay through a speaker the distinctive sounds created by sending digital data over the voice line. Because the connection process and data patterns are similar each time, hearing the sound pattern helps a user verify whether the

connection process is working.

Broadband Modems

A broadband modem like those used for DSL or cable internet access uses advanced signaling techniques to achieve dramatically higher network speeds than traditional dial-up modems. Broadband modems are often referred to as high-speed modems. Cellular modems are a type of digital modem that establishes internet connectivity between a mobile device and a cell phone network.

External broadband modems plug into a home broadband router or other home gateway device on one end and the external internet interface such as a cable line on the other. The router or gateway directs the signal to all the devices in the business or home as needed. Some broadband routers include an integrated modem as a single hardware unit.

Many broadband internet providers supply suitable modem hardware to their customers at no charge or for a monthly fee. However, standard modems can be purchased through retail outlets.

BOSCH TRIAL

EXHIBIT 26

What's the Difference Between a Modem and a Router?

by Chris Hoffman on April 25th, 2017



If you've been on the Internet for a while, you've no doubt heard the terms "modem" and "router" thrown around, but might not have taken the time to understand what they are. We're here to help.



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In short, your router creates a network between the computers in your

home, while your modem connects that network—and thus the computers on it—to the internet. When you connect to Wi-Fi, you're really connecting to your router, which forwards traffic between the internet and your computer. Many internet providers offer a [combined modem/router unit](#) that performs both these functions in one device.

So why bother to understand the difference? Because that understanding can lead to better decisions, like [buying your own modem so you can stop paying \\$8-\\$15 a month to rent one from your ISP](#).

What a Router Does

RELATED: [*What's the Difference Between Private and Public Networks in Windows?*](#)

A router connects multiple networks and routes network traffic between them. It's really that simple. In the case of your home network, your router has one connection to the Internet and one connection to your [private local network](#). In addition, most routers also contain built-in switches that let you connect multiple wired devices. Many also contain wireless radios that let you connect Wi-Fi devices.

The simple way to think about routers—especially on your home network—is like this. The router sits in between your Internet connection and your local network. It lets you connect multiple devices to the Internet through one physical Internet connection and also lets those devices communicate with one another over the local network. In addition, the router offers some protection to your devices over being exposed directly to the Internet. To the Internet, all the traffic coming from your house looks like it's coming from a single device. The router keeps track of what traffic goes to which actual device on your network.



But you can't connect directly to the Internet with just a router. Instead, your router must be plugged into a device that can transmit your digital traffic over whatever type of Internet connection you have. And that device is a modem.

What a Modem Does

Your modem serves as a bridge between your local network and the Internet. Historically, the term “modem” is shorthand for modulator-demodulator. Modems were used to modulate the signals on telephone lines so that digital information could be encoded and transmitted over them and then demodulated—and decoded—on the other end. Though more modern broadband connections—like cable and satellite—don't really work the same way, we kept using the term “modem” because it's a device people were already familiar with and associated with connecting to the Internet.



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How a modem attaches to your network depends on the type of connection you have. The modem plugs into whatever type of infrastructure you have—cable, telephone, satellite, or fiber—and gives you a standard Ethernet cable output that you can plug into any router (or a single computer) and get an Internet connection.



Since the modem communicates with your Internet service provider, you'll need the correct type of modem that will work with your ISP's infrastructure.

Combined Routers and Modems

Some ISPs offer a modem and router in a single device. That device has the electronics and software in it to provide both functions, acting as a modem that communicates with your ISP and functioning as a router to create a home network. Some ISPs also bundle a phone interface into the same box so you can use their VOIP offerings.

While a combined unit has its attractions—just having one device cluttering up your office being one—there are also disadvantages. Using separate devices offers more flexibility in what you can do with your network and lets you make sure you're using the best quality devices you can. And using your own devices instead of the ones your ISP provides can save you some money.

Buy Your Own Modem

RELATED: [*Buy Your Cable Modem Instead of Renting It to Save \\$120 Per Year*](#)

[Buying your own modem](#) is an easy way to save money on your

Internet bill. Check your monthly bill and you'll probably see an "Equipment rental" or "Modem rental" fee that's costing you somewhere between \$8 and \$15 per month. Rather than renting your modem from your Internet service provider, you can buy your own and hook it up. You can then return the original modem to your ISP and remove that fee from your monthly bill. Yes, it will cost you some money up front. But that typically adds up to somewhere between 6 and 10 months of monthly device rental fees. Keep the devices longer than that and you're saving money every month.

RELATED: [*Upgrade Your Wireless Router to Get Faster Speeds and More Reliable Wi-Fi*](#)

Of course, if you have a combined modem/router unit, you'll also need to buy a home router. That's not necessarily bad news, though. The router your ISP provides may not have [the latest technologies like 802.11ac and 5 GHz Wi-Fi](#), so you may be better off buying your own router anyway.

Check to see if you're actually renting your modem and how much you're spending every month, and then find the best modem for your ISP. The [Motorola SURFboard SB6141](#) is a good bet for most people at around \$70. If you're spending \$10 a month on a modem rental, you'll break even and start saving money after just seven months. That's hundreds of dollars saved over the life of your modem.

You can use any wireless router you want, but the modem you purchase has to be approved by your ISP to function with their network. In a sense, you can think of your router as a device that's part of your home network and the modem as a device that's part of your ISP's network.

Image Credit: [Clive Darra on Flickr](#), [Paul Boxley on Flickr](#), [Sean MacEntee on Flickr](#)

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COMMENTS: 

Chris Hoffman is a technology writer and all-around computer geek. He's at home using the Linux terminal as he is digging into the Windows registry. Connect with him on Twitter.

DID YOU KNOW

A contranym is a word that is its own antonym: for example, to dust can mean to lay down particles (as in dusting for finger prints) and to remove particles (as in to dust a shelf of collectibles).

BOSCH TRIAL

EXHIBIT 27

modem

[**moh**-duh m,
-dem] *Computers.*

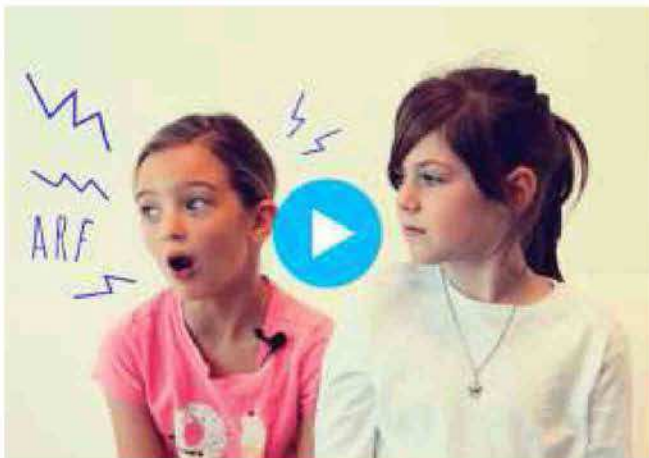
[Examples](#) [Word Origin](#)

[See more synonyms on Thesaurus.com](#)

noun

1. an electronic device that makes possible the transmission of data to or from a computer via telephone or other communication lines.

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These kids have the BEST interpretations of popular idioms



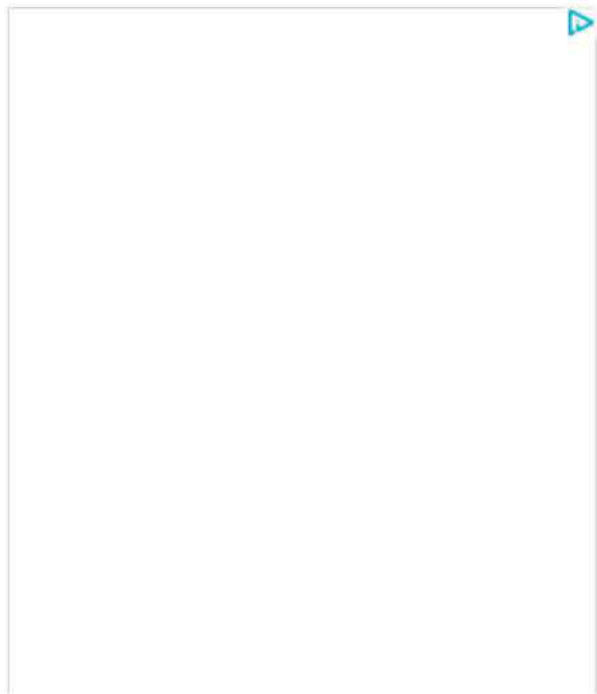
Others Are Reading



This kid redefined classic words and we are here for it.



Avoid these words. Seriously



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EXHIBIT 28



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1. [troll 'to harass, criticize, or antagonize especially by disparaging or mocking public statements'](#)
2. [exculpatory 'tending or serving to exculpate'](#)
3. [ideologue 'an often blindly partisan advocate or adherent of a particular ideology'](#)
4. [socialism 'a way of organizing a society in which major industries are owned and controlled by the government'](#)
5. [uphold 'to let stand'](#)

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Definition of modem

plural modems

: a device that converts signals produced by one type of device (such as a computer) to a form compatible with another (such as a telephone) and that is used especially to transmit and receive information between computers via [landlines](#)

See [modem defined for English-language learners](#)

See [modem defined for kids](#)

BOSCH TRIAL

EXHIBIT 29

What Is a Netbook?

How Low Cost Windows Laptops Are Reviving an Older Computing Concept

by [Mark Kyrmin](#)

Updated March 05, 2018

Netbooks were originally developed back in 2007 as a new class of personal computer system. The original models were designed to offer basic computing experience in a compact laptop design with a price tag of roughly \$200 to \$300, which was incredibly inexpensive at the time.

Over the years, the features and price of netbooks continued to climb while classic laptop prices continued to fall. Ultimately, netbooks faded out when tablets became popular.

Most recently, however, the idea of extremely affordable and compact laptops has risen again with a number of companies essentially releasing systems that share many of the same traits as netbooks, but without that specific name.

Speed Is Not Everything

Most netbook class laptops are not what you would consider fast. They are not designed for speed but more for power efficiency. They tend to use a different class of [processor](#) from traditional laptops that are closer to what's used in a tablet.

This is because they only need enough processor performance to handle basic computing tasks like web browsing, email, word processing, spreadsheets, and basic photo editing.

Unless you need support for gaming and streaming, or intense photo and video editing, you do not need much computing power.

Where Is the CD/DVD Player?

When netbooks originally came out, a CD or DVD drive was still very much a requirement for most computers since that was the common way to install software. Now, however, it's becoming increasingly difficult to find a laptop that actually features one.

This is because [optical drives are not a requirement](#) for computers thanks to digital software distribution. Most software programs are available online, even commercial programs that aren't freely available.

Therefore, in this respect, there really isn't much of a distinction between a netbook and a traditional laptop.

Netbook Hard Drive

[Solid state drives](#) (SSDs) are becoming much more common with mobile computers. Their compact size, low power consumption, and durability make them ideal for mobile devices.

In fact, netbooks were originally some of the first personal computers to use them with any regularity. They still have the disadvantage of not offering as much storage space as traditional [hard drives](#), though, and as a result, most netbook class laptops usually have storage capacities of roughly 32 to 64 GB.

In addition to this, they use less expensive drives that offer lower performance than standard [SATA](#) based drives found in many laptops.

Netbook Display and Size

[LCD](#) displays are probably the biggest cost to manufacturers of laptop PCs. In order to reduce the overall costs of these systems, manufacturers developed them using smaller screens.

The first netbooks used relatively small 7-inch screens. Since then, [monitors](#) have been getting progressively larger. Most newer laptops that would be considered netbooks feature screens with a ten to twelve-inch size. It should be noted that they often are not touchscreens and have lower resolutions to, once again, keep the costs down.

The first netbooks were incredibly light at just over two pounds, while a traditional laptop was weighing in around five pounds. Now, most laptops have become smaller, weighing between three and four pounds, and competing tablets often at less than a pound.

They don't have the ultra-compact size that they once did, but they're still very portable for many people.

Netbook Software

The typical netbook-style laptop is often sold as an extremely portable system that runs Windows, but there are restrictions that users should be aware of.

For example, they often ship with a [32-bit](#) version of Windows rather than [64-bit](#) that most systems do. This is because the netbook class laptops feature just 2 GB of [memory](#) and the smaller 32-bit software [executables](#) take up less space and memory.

The downside is that there are sometimes cases where the traditional Windows software that you wish to run on these computers, will not. More than anything else, this is often due to the [hardware](#) limitations like the memory or the speed of the processor.

If you're thinking of getting a netbook computer, look very carefully at the hardware requirements of any software you intend to run on it. Items like mail, web browsers, and productivity software, for the most part, won't be too restricted. Instead, however, it's more the media focused applications that involve graphics and video that you'll find the netbook is woefully underpowered to run.

If you find that your favorite applications will not work on a netbook, you might consider a traditional laptop or a [gaming laptop](#).

Netbook Prices

Netbooks were always about cost, but this was their original downfall. While the original systems were priced around \$200 with laptops over \$500, the gradual price increases on netbooks and the decreasing costs of traditional laptops meant that the systems were doomed.

Now, it's relatively easy to find a traditional [laptop for under \\$500](#). As a result, the newer crop of [netbook laptops on the market](#) are all roughly \$200, many not even getting any more expensive than \$250.

Tablets are the primary reason that netbooks had to get back to keeping prices as low as possible.

More Information on Netbooks

The newer class of super affordable Windows laptops is a difficult one. They are certainly affordable at just \$200, but their features limit the usefulness (for most people).

It's much harder to justify a [netbook over a tablet](#) when you can essentially get nearly identical internal components from a netbook inside a Windows-based tablet. The main difference is seen when you decide whether or not you prefer a touchscreen or a keyboard for input.

Also, the wider range of software makes it harder to distinguish a traditional Windows system from a tablet. More than anything else, it essentially comes down to how you intend to use the devices.

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EXHIBIT 30

NARROW YOUR SEARCH

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FAQs

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- What is a Netbook**
- What is a Tablet PC
- What is a TrackPad
- What is An Ultrabook



What is a netbook?

The term "netbook" is a perfect description of the product: a small laptop PC intended mostly for using internet-based tools and services -- surfing the web, running lightweight apps, saving files to the cloud, and so on. Built with less costly components and fewer

optional features, netbooks were designed to be affordable systems for casual personal or family use, limited-duration business work, or as an easily portable travel companion.

Netbooks were very popular from 2007-2014 or so, but their position in the PC marketplace has eroded, with **tablets** becoming the preferred choice for consumers seeking ultraportable systems for casual use. Plus, the distinctiveness of the netbook as a "smaller laptop" category has decreased as ever-smaller but still **full-featured laptops** hit the market. Today, the difference between netbooks and regular laptops is less their size than their price, with highly usable netbooks available for \$200 or less.

The netbook market is now dominated by smaller manufacturers. Many larger PC manufacturers don't even market systems as "netbooks" anymore, instead offering their netbook-style models simply as lower priced, less powerful options within existing laptop product lines.

What defines a netbook?

The netbook has always been better defined as a concept than by a series of specific size and weight specifications. That's because companies used the term netbook to describe a wide range of smaller-than-a-laptop systems, from models with 6"-7" displays (not much bigger than a large smartphone) to ones with very laptop-like 11"-13" displays.

So, in the simplest terms, a netbook is a laptop (meaning it's got a hard frame and attached lid/display) that is intentionally designed to be smaller and cheaper than other systems in that class. To find this low-cost "sweet spot" in the marketplace, netbooks have some major differences compared to laptops:

- o Processor: Netbook processors need to operate within even smaller spaces than laptop processors, so netbooks typically use low-voltage, low-power CPUs similar to those used in tablet PCs. This limits their cycle times to the range of 1 GHz to 2 GHz and makes advanced spreadsheet or photo editing programs slower than on other systems.
- o Storage: To achieve their light weight (typically about 2 lbs.), netbooks contain much smaller hard drives and, therefore, less storage space. Capacities vary widely, from smartphone-like 32-64 GB models to ones with



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150 GB or more. Systems with solid-state drives offer higher capacities but the cost of the drives pushes them to the upper half of the netbook price range.

- o Features: Like tablets, netbooks are built to use the internet for accessing and using remote services, saving data to the cloud, and so on. So, you won't find a DVD drive on most netbooks. There are still multiple ports to attach USB devices, external monitors, etc., but the number and type of ports typically goes down along with the price of the system.

As with most consumer products, if you're willing to pay more, you can find netbooks with comparatively faster processors, more storage capacity and additional features such as touch screens, handles, Bluetooth connectivity, and so on. So, when shopping, read the specifications carefully. Today's market includes an amazingly wide range of netbook-style capabilities, styles and prices.

Pros and cons of netbooks

The typical netbook buyer wants a highly portable, "smaller-than-a-laptop" system but doesn't need the speediest processor, high-capacity hard drive or other features of a bigger, heavier laptop. In short, as shown in the following table, a netbook is a compromise.

Advantages of a netbook:	Disadvantages of a netbook:
<ul style="list-style-type: none"> o Less costly than most laptops or tablets o Convenient to hold, carry and pack o Extremely light weight o Physical keyboard for email and business apps o Long battery life (generally) 	<ul style="list-style-type: none"> o Slower processors and less RAM (generally) o Small screen size o Limited internal storage o Keyboard may be smaller than typical ones o Few peripheral options (DVD drives, etc.)

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EXHIBIT 31

netbook

[**net**-boo k]

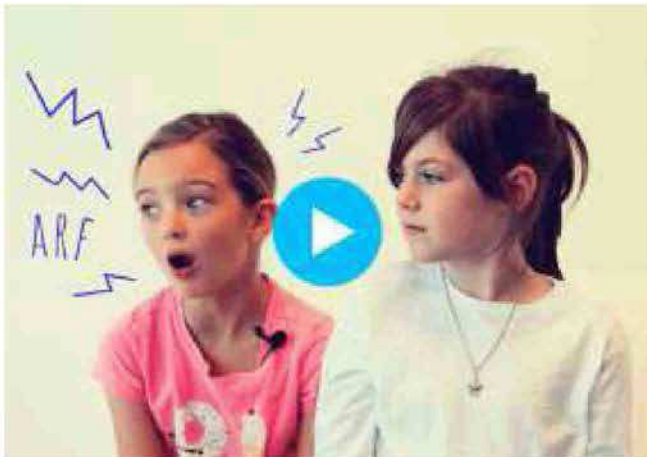
[Examples](#) [Word Origin](#)

[See more synonyms on Thesaurus.com](#)

noun *Computers.*

1. a small, lightweight laptop computer used especially for Internet access and email.

[Explore Dictionary.com](#)



These kids have the BEST interpretations of popular idioms



Insults We Should Bring Back

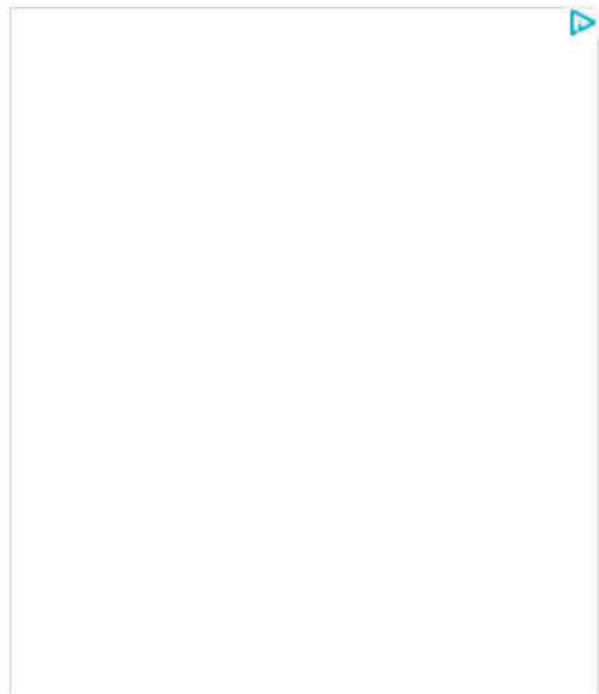
Others Are Reading



This kid redefined classic words and we are here for it.



Avoid these words. Seriously



BOSCH TRIAL

EXHIBIT 32



Search English



Definition of “netbook” - English Dictionary

English ▾

“netbook” in English

[▶ See all translations](#)

netbook

noun [C] • **UK** /'net.bʊk/ **US** /'net.bʊk/★ **a small laptop computer designed mainly for using the internet**— **Thesaurus:** synonyms and related words**Computer hardware**

3-D printer blackberry brick bubblejet codec joypad **Macintosh**
micro microcomputer motherboard **PDA** **ram**
shift key slate **tablet** toggle trackball VDT VDU
 word processor

[See more results »](#)(Definition of “netbook” from the **Cambridge Advanced Learner's Dictionary & Thesaurus** © Cambridge University Press)

Examples ▾

BOSCH TRIAL

EXHIBIT 33

Definition of 'phone'

Learner: phone American: phone1 American: phone2 English: phone1 English: phone2 Example sentences Trends Word Frequency

phone

(foʊn)

Word forms: phones, phoning, phoned

1. singular noun [usu the N, also by N]

The phone is an electrical system that you use to talk to someone else in another place, by dialing a number on a piece of equipment and speaking into it.

"I didn't tell you over the phone," she said. "I didn't know who might be listening."

She looked forward to talking to her daughter by phone.

2. countable noun

The phone is the piece of equipment that you use when you dial someone's phone number and talk to them.

Two minutes later the phone rang.

3. See also [cellular phone](#)

4. singular noun

If you say that someone picks up or puts down the phone, you mean that they lift or replace the receiver.

She picked up the phone, and began to dial Maurice's number.

5. transitive verb/intransitive verb

When you phone someone, you dial their phone number and speak to them by phone.

He'd phoned Laura to see if she was better.

6.

[on the phone](#)

7. UNRESOLVED CROSS REF LABEL

Phrasal verbs:

[phone in](#)

[phone up](#)

COBUILD Advanced English Dictionary. Copyright © HarperCollins Publishers

Word Frequency

phone in American 1

(foʊn ; fōn)

US

noun, verb transitive, verb intransitive Word forms: phoned or 'phoning

[telephone](#)

Webster's New World College Dictionary, 4th Edition. Copyright © 2010 by Houghton Mifflin Harcourt. All rights reserved.

Word Frequency

phone in American 2

(foʊn ; fōn)

noun

Phonetics

any single speech sound [considered](#) as a [physical event](#) without [reference](#) to its place in the [structure](#) of a language

Webster's New World College Dictionary, 4th Edition. Copyright © 2010 by Houghton Mifflin Harcourt. All rights reserved.



Word origin of 'phone'

Gr phōnē, a sound: see [phono-](#)

Word Frequency

phone in British 1

(fəʊn)

noun, verb

short for [telephone](#)

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Word Frequency

phone in British 2

(fəʊn)

noun

phonetics

a [single uncomplicated speech](#) sound

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BOSCH TRIAL

EXHIBIT 34

A

Definition of: tablet computer

tablet computer

A general-purpose computer contained in a touchscreen panel. Although earlier tablet computers required a stylus, modern tablets are operated by fingers, and a stylus is an option.

iPad, Android and BlackBerry

In 2010, Apple's iPad created a tablet revolution as dramatic as it did with the iPhone. However, Android tablets have given the iPad a run for its money with numerous models from many vendors. BlackBerry introduced a tablet for its customers, which was later discontinued (see [BlackBerry PlayBook](#)). See [iPad](#) and [Android](#).

Windows Tablets

In 2000, Microsoft introduced a tablet version of Windows (see [Tablet PC](#)). However, Windows tablets were not widely used until Windows 8 changed the game in 2012. Any program that runs on a Windows PC can run on a Windows 8 or Windows 10 tablet. See [Windows tablet](#).

Thousands of Applications

Just like smartphones, tablets come with a Web browser and a variety of installed apps; however, a huge number of free and paid apps are available from the vendor's online store (see [online app store](#)). See [mobile compatibility](#).



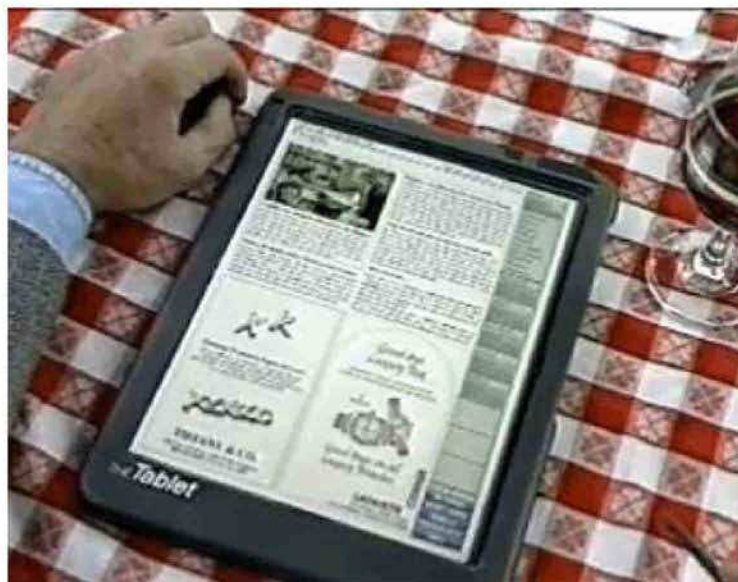
Full Size and Mini

Left to right are the Lenovo IdeaTab (Windows 8), Apple iPad (iOS) and Acer Iconia (Android). The small tablet is the Amazon Kindle Fire (Android). See [phablet](#).



State-Of-The-Art in 1999

Although seriously bulky by today's standards, the Qbe ("Cube") Windows tablet included voice recognition, camera, analog modem, Ethernet and a keyboard for desktop use. *(Image courtesy of Aqcess Technologies Inc.)*



The Tablet Newspaper Prototype

In 1994, Knight-Ridder's Roger Fidler predicted newspapers would be viewed on tablets in the future. Watch the video: www.youtube.com/watch?v=7_QyktOw0JM.

BOSCH TRIAL

EXHIBIT 35

SearchMobileComputing.com

tablet (tablet PC)

By Margaret Rouse

A tablet is a wireless, portable personal computer with a [touchscreen](#) interface. The tablet [form factor](#) is typically smaller than a notebook computer, but larger than a [smartphone](#).

The idea of tablet computing is generally credited to Alan Kay of Xerox, who sketched out the idea in 1971. The first widely sold tablet computer was Apple Computer's Newton, which was not a commercial success. Technological advances in [battery](#) life, [display resolution](#), handwriting recognition software, [memory](#) and [wireless](#) internet access have since made tablets a viable computing option.

Today, the most common type of tablet is the slate style, like Apple's [iPad](#), Microsoft's [Surface](#) or Amazon's [Kindle Fire](#). External keyboards are available for most slate-style tablets, and some keyboards also function as [docking stations](#) for the devices.

Other styles of tablets include:

- Convertible tablets. These typically have a display that rotates 180 degrees and can be folded to close, screen up, over an integrated hardware keyboard. Convertible models may allow user input through a variety of methods in addition to the hardware keyboard, including natural handwriting with a [stylus](#) or [digital pen](#) and typing through a screen-based [software keyboard](#).
- Hybrid tablets. Sometimes referred to as convertible or hybrid notebooks, a hybrid is like a regular notebook, but has a removable display that functions independently as a slate.
- [Rugged](#) tablets. A slate-like model that is designed to withstand rough handling and extreme conditions. Rugged tablets are usually encased in a thick protective shell and have shock-protected hard drives.

Tablet PC operating systems and features

Consumers and businesses have a range of tablet devices and operating systems from which to choose. Collectively, tablets have made numerous technological advances and gained increasing popularity in enterprise BYOD environments.

Microsoft's Surface and Surface Pro tablet PCs are configured for a 64-bit Windows operating system. The Surface Pro 4 has a 12.3-inch screen and includes a stylus for drawing and writing on the touchscreen. Google's Android is the best-selling tablet OS; the 6.0 Marshmallow version is featured on such devices as the Lenovo Pro 12 tablet, and 5.1 Lollipop is included in the Samsung's Galaxy Tab E tablet PC.

Apple is largely responsible for igniting tablets' current popularity, having released its first-generation iPad in April 2010. Since then, Apple has developed a family of associated devices, including the iPad Air, iPad Pro and iPad Mini. The iPad Pro is available in two touchscreen sizes: 9.7 inches and 12.9 inches. As for capacity, the iPad Mini ranges from 16 GB to 128 GB, while the iPad Pro is available with 32 GB to 128 GB of storage. Apple also released the Apple Pencil stylus for the iPad Pro.

08 Aug 2016

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BOSCH TRIAL

EXHIBIT 36

Definition of “tablet” - English Dictionary

American ▾

≡ Contents

“tablet” in American English

[▶ See all translations](#)

tablet

noun [C] • **US**  /ˈtæb·lɪt/**tablet** *noun* [C] (MEDICINE)

★ a small, round, solid object made of medicine; a pill:

aspirin tablets

tablet *noun* [C] (STONE)

★ a piece of stone or other hard material used for writing, esp. in ancient times:

The archaeologists found six tablets recording business transactions from over three thousand years ago.

tablet *noun* [C] (PAPER)

★ sheets paper that have been fastened together at one edge, used for writing or drawing; a pad:

f

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8



His pen swept across his drawing tablet.

(Definition of "tablet" from the [Cambridge Academic Content Dictionary](#) © Cambridge University Press)

English ▾

☰ Contents

"tablet" in English

▶ [See all translations](#)

tablet

noun [C] • **UK**  /'tæb.lət/ **US**  /'tæb.lət/

tablet *noun* [C] (MEDICINE)

★ **B1 a small, solid piece of medicine:**

a sleeping tablet

a vitamin tablet

— More examples

He'd taken a sleeping tablet the night before and still felt dopey .

Take one tablet three times a day.

The medicine is available in tablet form.

+ Thesaurus: synonyms and related words



tablet *noun* [C] (BLOCK)

- ★ **a thin, flat, often square piece of hard material such as wood, stone, or metal:**

The poem was engraved on a tablet of stone.

UK *a tablet of soap*

- + Thesaurus: synonyms and related words

tablet *noun* [C] (COMPUTER)

- ★ ALSO tablet computer **a small, flat computer that is controlled by touching the screen or by using a special pen**

- + Thesaurus: synonyms and related words

(Definition of "tablet" from the [Cambridge Advanced Learner's Dictionary & Thesaurus](#) © Cambridge University Press)

Business ▾

☰ Contents

"tablet" in Business English

▶ [See all translations](#)

tablet

noun [C] • UK  /'tæblət/ US  ALSO tablet computer, ALSO tablet PC

- ★ **IT** **a type of small computer with a screen that you can write on using a special pen:**

This tablet PC converts into a smoothly working notebook with a keyboard addition.



(Definition of "tablet" from the [Cambridge Business English Dictionary](#) © Cambridge University Press)

Examples ▾



BOSCH TRIAL

EXHIBIT 37

Technology Dictionary

Techopedia has one of the web's most comprehensive [computer](#) dictionaries. More than just a glossary, each term page goes into further detail with insights, real world examples and great related resources.

Term of the Day

Data Cholesterol
(/definition/28090/data-cholesterol)

Search the Dictionary

Browse by Alphabetical Listing

[# \(/it-terms/1\)](#)
[A \(/it-terms/a\)](#)
[B \(/it-terms/b\)](#)
[C \(/it-terms/c\)](#)
[D \(/it-terms/d\)](#)
[E \(/it-terms/e\)](#)
[F \(/it-terms/f\)](#)
[G \(/it-terms/g\)](#)
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[X \(/it-terms/x\)](#)
[Y \(/it-terms/y\)](#)
[Z \(/it-terms/z\)](#)

Newest Terms

- [Blockchain Economy \(/definition/33358/blockchain-economy\)](/definition/33358/blockchain-economy)
- [Capsule Network \(/definition/33216/capsule-network-capsnet\)](/definition/33216/capsule-network-capsnet)
- [Progressive Web App \(/definition/33322/progressive-web-app-pwa\)](/definition/33322/progressive-web-app-pwa)
- [Omnidirectional Treadmill \(/definition/33413/omnidirectional-treadmill-odt\)](/definition/33413/omnidirectional-treadmill-odt)
- [Data Bleed \(/definition/33423/data-bleed\)](/definition/33423/data-bleed)
- [Autoencoder \(/definition/33284/autoencoder-ae\)](/definition/33284/autoencoder-ae)
- [Cryptocurrency Exchange \(/definition/33372/cryptocurrency-exchange\)](/definition/33372/cryptocurrency-exchange)
- [Google Chromium \(/definition/33390/google-chromium\)](/definition/33390/google-chromium)
- [User-Centered Design \(/definition/33367/user-centered-design\)](/definition/33367/user-centered-design)
- [Learning Algorithm \(/definition/33426/learning-algorithm\)](/definition/33426/learning-algorithm)
- [Unified Endpoint Management \(/definition/33424/unified-endpoint-management-uem\)](/definition/33424/unified-endpoint-management-uem)
- [Hopfield Network \(/definition/19818/hopfield-network\)](/definition/19818/hopfield-network)
- [Adaptive Resonance Theory \(/definition/33281/adaptive-resonance-theory-art\)](/definition/33281/adaptive-resonance-theory-art)
- [Explainable Artificial Intelligence \(/definition/33240/explainable-artificial-intelligence-xai\)](/definition/33240/explainable-artificial-intelligence-xai)
- [Gated Recurrent Unit \(/definition/33283/gated-recurrent-unit-gru\)](/definition/33283/gated-recurrent-unit-gru)
- [Delta Rule \(/definition/33282/delta-rule\)](/definition/33282/delta-rule)
- [Competitive Network \(/definition/33280/competitive-network\)](/definition/33280/competitive-network)

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- [Enterprise \(/dictionary/tags/enterprise\)](/dictionary/tags/enterprise)
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- [Technology Trends \(/dictionary/tags/trends\)](/dictionary/tags/trends)

[View Tag Cloud... \(/article/topics\)](/article/topics)

- Artificial Immune System
(/definition/32687/artificial-immune-system-ais)
- Variational Autoencoder
(/definition/33285/variational-autoencoder-vae)
- Denoising Autoencoder
(/definition/33286/denoising-autoencoder-dae)

BOSCH TRIAL

EXHIBIT 38

2

terminal

[noun](#)

Definition of terminal

1 a : either end of a carrier line having facilities for the handling of freight and passengers

b : a freight or passenger station that is central to a considerable area or serves as a junction at any point with other lines

c : a town or city at the end of a carrier line : [terminus](#)

2 : a combination of a keyboard and output device (such as a video display unit) by which data can be entered into or output from a computer or electronic communications system

3 : a device attached to the end of a wire or cable or to an electrical apparatus for convenience in making connections

4 : a part that forms the end : [extremity](#), [termination](#)

5 : a [terminating](#) usually ornamental detail : [finial](#)

See [terminal defined for English-language learners](#)

Examples of *terminal* in a Sentence

1. I will meet you outside the bus *terminal*.
2. Flight 1584 is now departing from Gate 6 in *Terminal A*.
3. You are not allowed in the *terminal* without a ticket.
4. Ten *terminals* are connected to this server.
5. You will need to clean the corrosion off the battery *terminals*.

Recent Examples of *terminal* from the Web

- Others park their two-wheelers at a valet bike station next door to the *t* — [rachel swan, SFChronicle.com, "Bicyclists protest as city plans for 2018"](#)
- Like Lot C, all provide shuttle service to the *terminals*. — [chris erskine, latimes.com, "All the LAX parking lots are full and y what to do," 29 June 2018](#)
- The pipeline currently runs from Alberta, Canada, across North Dakota *terminal* in Superior, Wisconsin. — [Washington Post, "Minnesota approves Enbridge Energy Line 3 pip](#)
- Spirit Airlines passengers arriving to Orlando got an unexpected hold- Monday when their flight had to yield to an alligator crossing a taxiwa — [ben mutzabaugh, USA TODAY, "Video: Spirit flight holds for allig Orlando," 12 June 2018](#)

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words

Ghost Word

BOSCH TRIAL

EXHIBIT 39













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<p>Reduced Price</p>  <p>\$7.97 List price \$9.96 Save \$1.99</p> <p>Mini ELM327 OBD2 II Bluetooth Car Diagnostic Tool Portable Auto Scanner</p> <p>★★★★★ (3)</p> <p>Sold & Shipped by Hai Jing Yuan Technology (Hong Kong) Co., Limited</p>	<p>Clearance</p>  <p>\$7.49 List price \$8.81 Save \$1.32</p> <p>Mini ELM327 OBD2 II Bluetooth Diagnostic Car Auto Interface Scanner Tool</p> <p>★★★★★ (2)</p> <p>Sold & Shipped by Humour Phantoms Inc</p>	<p>Clearance</p>  <p>\$7.58</p> <p>Mini ELM327 OBD2 II Bluetooth Car Diagnostic Tool Portable Auto Scanner</p> <p>★★★★★ (1)</p> <p>Sold & Shipped by Windy Winter Inc</p>	 <p>\$11.99</p> <p>Mini ELM327 OBD2 II Bluetooth Diagnostic Car Auto Interface Scanner Tool</p> <p>★★★★★ (1)</p> <p>Free store pickup</p>
<p>Clearance</p> <p>Report issue X</p> 	<p>Reduced Price</p> 	<p>Clearance</p> 	

Report issue 

Cell Phones Search

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\$130 10GB Every Month
First 10 GB Data up to 4G LTE Speed, then 2G*

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BOSCH TRIAL

EXHIBIT 40

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- Loreox (1)
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- Swann (8)

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Product Features

Product Features

- Smartphone Compatible (50)
- Night Vision (57)
- Remote Monitoring (85)
- Wireless (11)
- High Definition (50)
- Day/Night Mode (11)
- Water-Resistant Housing (48)
- Records Audio (30)

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Connectivity

- Wireless (35)
- Wire-free (Battery-powered) (15)
- Wired (33)

Indoor/Outdoor Use

- Outdoor (56)
- Indoor/Outdoor (32)
- Indoor (60)

Customer Rating


- Top-Rated (2)
- ⭐⭐⭐⭐⭐ 5 (9)
- ⭐⭐⭐⭐ 4 & Up (44)
- ⭐⭐⭐ 3 & Up (58)
- ⭐⭐ 2 & Up (67)

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Number of Cameras

- 1 (7)
- 2 (7)
- 3 (8)
- 4 (2)
- 5 (2)
- 6 (5)
- 8 (9)
- 10 (1)

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Platform Compatibility

- Amazon Alexa (26)
- IFTTT (18)
- SmartThings (13)
- Arlo (1)
- Wink (1)
- Defender (5)
- EZVIZ (6)
- Google Assistant (8)

[Show More](#)

- IFTTT (18)
- SmartThings (13)
- Arlo (1)
- Wink (1)
- Defender (5)
- EZVIZ (6)
- Google Assistant (8)

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- \$25 - \$49.99 (3)
- \$75 - \$99.99 (2)
- \$100 - \$149.99 (1)
- \$150 - \$199.99 (7)
- \$200 - \$249.99 (10)
- \$250 - \$499.99 (28)
- \$500 - \$749.99 (13)
- \$750 - \$999.99 (4)
- \$1000 - \$1249.99 (3)
- \$1250 - \$1499.99 (1)

Hub Included

- Included (47)
- Not included but needed (4)
- Not needed (4)
- Integrated (1)



Survan - 18-Channel, 12-Camera Indoor/Outdoor Wired 2TB DVR Surveillance System - Black/White

Model: SW08-164592-US SKU: 8778913

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4.3 (765)

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4.0 (33)

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Compare Save

\$299.99

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Only at Best Buy

Ring - Alarm Starter Home Security Kit

Model: 481157-06NA SKU: 6097401

4.0 (33)

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SimpliSafe - Shield Home Security System - White

Model: SS3-02 SKU: 8114606

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Arlo - Pro 1-Camera Indoor/Outdoor Wireless 720p Security Camera System - White

Model: VM44130-100NAS SKU: 5604400

4.4 (5,626)

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Model: VM4430-100NAS SKU: 566601

★★★★☆ 4.4 (5,626)

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Ring - Alarm Home Security Kit

Model: 4X167-0EN0 SKU: 6092400

★★★★☆ 4.0 (33)

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Night Owl - 4-Channel, 4-Camera Indoor/Outdoor Wireless 1080p NVR Surveillance System

Model: NWV201-4EP SKU: 5824304

★★★★☆ 4.1 (73)

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Arlo - Pro 2 Camera Indoor/Outdoor Wireless 720p Security Camera System - White

Model: VM4230-100NAS SKU: 5604500

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Model: SSS-01 SKU: 614605

★★★★☆ 4.5 (69)

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Arlo - Pro 4-Camera Indoor/Outdoor Wireless 720p Security Camera System - White

Model: VMS4430-100NAS SKU: 5904600

★★★★☆ 4.4 (5,626)

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Samsung - SmartThings ADT Home Security Starter Kit - White

Model: F-ADT-STR-KT-1 SKU: 6106107

★★★★☆ 4.0 (43)

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Nest - Secure Alarm System with Nest Cam Outdoor - White

Model: B01234-US SKU: 6080401

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Defender - PhoenixM2 Digital Wireless 7" Monitor DVR Security System with 2 Long-Range Night Vision Cameras and SD Card Recording - Black

Model: PHOENIXM2C SKU: 5495155

★★★★☆ 4.5 (33)

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Arlo - Pro 2 6-Camera Indoor/Outdoor Wireless 1080p Security Camera System - White

Model: VMS4630P-100NAS SKU: 6201912

★★★★☆ 3.8 (18)

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Next - Secure Alarm System - White

Model: H1500E5 SKU: 6086402

★★★★★ 4.1 (88)

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Ring - Alarm Contact Sensor - White

Model: 4SD1570EN0 SKU: 6129211

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Defender - 8-Channel, 4-Camera Wired 1080p 1TB DVR

Surveillance System - Black/White

Model: HD178D4 SKU: 559778

★★★★★ 5.0 (5)

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Defender - 4-Channel, 4-Camera Wired 1080p 1TB DVR

Surveillance System - Black/White

Model: HD114B4 SKU: 558782

★★★★★ 4.4 (16)

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SimpliSafe - Protect Home Security System - White

Model: SS7-FR105-00 SKU: 4543901

★★★★★ 4.5 (285)

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Defender - 4-Channel, 2-Camera Wired 1080p 1TB DVR Surveillance System - Black/White
 Model: HD1482 SKU: 5590790

★★★★☆ 4.4 (16)

FREE Shipping: Get it by Fri, Aug 10

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Bosch B5512-C-920 Kit Includes B5512 / B10 / CX4010 / B920

Bosch | SKU: B5512-C-920 | Model: B5512-C-920

Product Highlights
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Kit includes B5512, B10, CX4010, B920.

The B5512 Control Panel integrates intrusion and residential fire, providing one simple user interface for both systems. The B5512 provides up to 49 individually identified points that can be split into 4 areas. The control panel includes a built-in Ethernet port for IP network communications, and is compatible with modules that send events to selected public switched telephone networks (PSTN), IP networks, or cellular network destinations through four programmable route groups. With the B5512, you can monitor doors, windows, and motion within areas like showrooms or those that hold inventory. Each user can have a personalized passcode, a wireless keyfob, and a credential to control the system.

The B10 is a white enclosure made of cold-rolled steel that is 1.0 mm (20 gauge) thick. It is compatible with D105, D110, ICP-EZTS.

The CX4010 is for use in North America. It converts 110 VAC primary voltage input to 18 VAC, 22 VA secondary input.

The B920 Two-Line Alphanumeric Keypad (SDI-2) is a SDI2 bus compatible device. Each keypad has user adjustable options such as volume and display brightness. The B920 shows two-line system messages for all areas.

B5512 Features:

- Supports up to 48 points using a combination of hardwired or wireless points for installation flexibility and up to 4 areas with perimeter and interior control
- On-board Ethernet port for Connetix IP alarm communication and remote programming, compatible with modern IP networks including IPv6/IPv4, Auto IP, and Universal Plug and Play
- Installer-friendly features including on-board USB for easy on-site RPS programming, plus plug-in PSTN and Cellular communication modules for simple installation and future proof upgrades
- Notifications with email and text messaging, and the Remote Security Control app for Android and iOS mobile devices

B10 Features:

- B10 Medium Control Panel Enclosure

CX4010 Features:

- CX4010 Plug-in Transformer

B920 Features:


- 2-line LCD display with up to 32 character point, user, and area names
- Simple menu-style user interface with dedicated function buttons for common commands, including status indication
- Situation sensitive on-screen help makes system operation simple and easy

Downloads

- B10 Data Sheet (Size: 205.7 KB)
- B512 Series Data Sheet (Size: 438.6 KB)
- B512 Series Installation Manual (Size: 4 MB)
- B700 Data Sheet (Size: 326.1 KB)
- CK400 Data Sheet (Size: 301.4 KB)

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Bosch | SKU: D7212GV4K1W | Model: D7212GV4K1W

Product Highlights

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Overview Specifications Reviews Q&A

D7212GV4 With Transformer, D1255W (White) Keypad, D8103 Enclosure, Lock And Key And 2 ISC-BDL2-WP12G Motion Detectors. GV4 panels are the premier commercial control panel line from Bosch. GV4 panels integrate intrusion and fire, providing one simple user interface for all systems. With the ability to adapt to large and small applications, the D7212GV4 provides up to 40 individually identified points that can be split into 4 areas. The control panel includes a communicator that sends events to selected public switched telephone network (PSTN), IP network, or cellular network destinations through four programmable route groups.

Each D1255 Series VFD Keypad model is an SDI bus compatible device that works with the G Series Control Panels and the D9124 Addressable Fire Alarm Panel. Each keypad model has an illuminated keypad, 16-character English language vacuum fluorescent display (VFD), and a sounder that emits eight tones.

Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).

The Blue Line Gen2 TriTech Motion Detectors (ISCBDL2) use a combination of passive infrared (PIR) and microwave detection technologies with advanced signal processing. The pet-friendly (-WP) models generate alarms for human intruders without generating false alarms for pets. These small unobtrusive detectors are simple to install and do not need field adjustments.

[Email](#)

Short-body lock set with one key supplied. Uses the D102 (#1358) replacement key.

D7212GV4 Features

- Fully integrated intrusion and fire, allows users to interface with one system instead of two
- Up to 4 programmable areas, each supporting both perimeter and interior points
- 40 points with flexible configuration options to meet multiple installation requirements
- Your choice of touch screen, vacuum fluorescent, ATM style or LED keypads
- Conetix IP-based communication options provide high-speed, secure alarm transport and control through connection of wired and/or cellular network interfaces

D1255W Features

- Easy to read vacuum fluorescent display (VFD)
- Easy system control with menu keys
- User controlled brightness and volume
- Installer configured menus, text, and custom functions
- Multiple or single area configurations

ISC-BDL2-WP12G Features

- Pet-friendly Selectable model available – optimize installation for pet (45 kg [100 lb]) and non-pet applications
- Dynamic Temperature Compensation – superior catch performance in any environment

- Microwave Noise Adaptive processing – reduce false alarms from repetitive sources
- Wall to Wall Coverage – superior catch performance
- Flexible Mounting Height, No Adjustments – reduce installation time and false alarms, improve catch performance

D101 Features

- Short-body lock set with one key supplied

Downloads






- [D101 Data Sheet \(Size: 276.4 KB\)](#)
- [D1255W Data Sheet \(Size: 321.7 KB\)](#)
- [D7212GV4 Series-Data Sheet \(Size: 616.4 KB\)](#)
- [D7212GV4 Series-Installation Guide \(Size: 2.8 MB\)](#)
- [D8103 Data Sheet \(Size: 294.7 KB\)](#)
- [ISC-BDL2-WP12G Data Sheet \(Size: 826.5 KB\)](#)

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Our Price: \$1,464.91

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Elf Wireless Pda (Bluetooth, Gps, 46-Key Qwerty, 8

Elf Wireless Pda (Bluetooth, 802.11A-B-G, St Laser, Green Spot, Wm6.5, 46-Key, Qwerty)

Our Price: **\$1,179.46**

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Elf Wireless Pda (Bluetooth, Gps, 27-Key Numeric,

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Elf Wireless Pda (Bluetooth, 802.11A-B-G, Std Laser

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List Price: **\$2,395.00**

Our Price: **\$1,269.00**

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Falcon X3 Wireless Mobile Computer (Pistol Grip, 802.11A-B-G, Bluetooth, 29-Key Numeric, Std Laser, Ce 6.0)

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Our Price: **\$1,242.51**

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Falcon X3 Wireless Mobile Computer (Pistol Grip, 802.11A-B-G, Bluetooth, 29-Key Numeric, Ar Laser, Ce 6.0)

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Our Price: **\$1,348.48**

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Falcon X3 Wireless Mobile Computer (Pistol Grip, 8

Falcon X3 Wireless Mobile Computer (H/H, 00A0Wi-2N0-Men1, H4447, 802.11A-B-G, 2D, Win Mob 6.5)

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Falcon X3 Wireless Mobile Computer (Pistol Grip, 802.11A/B/G, Bluetooth V2, 29-Key, Wm 6.5, Wide Imager)

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Elf Wireless Pda (Bluetooth V2.0, 802.11A/B/G Ccx V4, Std Laser With Green Spot, Windows Ce 6.0, 256Mb Ram/256Mb Flash, 46-Key Qwerty)

Our Price: **\$980.23**

FREE

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Falcon X3 Wireless Mobile Computer (H/H, 00A0Wi-2N

Elf Wireless Pda (Bluetooth 2.0, 802.11, Std Laser Green Spot, Win Ce6.0, 256Mb, 27-Key Numeric)

Our Price: **\$980.23**

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Falcon X3 Wireless Mobile Computer (Pistol Grip, 8

Falcon X3 Wireless Mobile Computer (Hh, 802.11A-B-G, Ccxv4, Bluetooth V2, 256Mb/Ram /Flash, Win Wm6.5)

Our Price: **\$1,216.02**

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Elf Wireless Pda (Bluetooth V2.0, 802.11A/B/G Ccx

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Elf Wireless Pda (Bluetooth 2.0, 802.11A-B-G, Ccxv4 2D Imager, Win Ce6.0, 27-Key, 256M)

Our Price: **\$1,088.85**

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Falcon X3 Wireless Mobile Computer (Hh, 802.11A-B-

Elf,Bt,V2.0,802.11 A/B/G Ccx V4,2D,Win Ce 6.0,46-Key Qwerty

Our Price: **\$1,088.85**

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Rhino-Net Wireless Vehicle Mount Terminal (10 Vehi

DL-Memor+802.11+Bt+2D+Ce5

Our Price: **\$676.09**

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Elf Wireless Pda (Bluetooth 2.0, 802.11A-B-G, Ccxv

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ELF,BT,V2.0,802.11 a/b/g CCX V4,2D,WIN CE 6.0,46-K

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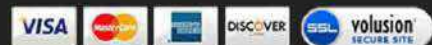
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Bosch ARD-SER10-WI LECTUS Secure 1000 WI iCLASS/MIFARE Reader, Mini-Mullion

Ideal for new and existing installations, LECTUS secure readers provide customers the assurance that their existing investments can be leveraged to enhance their system as business requirements change. The technology-independent readers also support iCLASS Seos and iCLASS SE credential platforms, as well as standard iCLASS, MIFARE, MIFARE DESFire EV1 and serial number from ISO 14443A credentials (32bit standard, 56 Bit optional).

Available with four different form factors LECTUS secure readers meet nearly all installation requirements for indoor and outdoor use.

Technical Specifications:

- Housing Material: Polycarbonate (UL 94)
- Color: Black
- Display: Multicolored RGB LED bar
- Panel connection: Wiegand, pigtail
- Operating temperature: -35 C to 65 C (-31 F to 150 F)
- Humidity: 5 to 95%, no condensation water
- Environmental rating: IP 55
- Operating Voltage Range: 5 to 16 VDC (12 VDC for RS-485)
- Card compatibility: iCLASS, iCLASS SE, MIFARE, MIFARE DESFire EV1, serial number from ISO 14443A credentials (32 bit standard, 56 bit optional)
- Operating frequency: 13.56 MHz
- Reading distance: 5 to 8.6 cm with iCLASS cards 4 to 7 cm with MIFARE cards 1.3 to 4.6 cm with tags/fobs
- Dimension (W x H x D): 4.8 x 15.3 x 2.3 cm
- Weight: 113g net

Features:

- Mini-mullion size
- 13.56 MHz proximity readers for connecting to access controllers with Wiegand interfaces
- Suitable for indoor and outdoor use
- Supports multiple technologies (iCLASS Seos and iCLASS SE credentials, standard iCLASS, MIFARE, and MIFARE DESFire EV1, serial number of ISO14443A credentials)
- Interoperable with a growing range of technology environments and form factors

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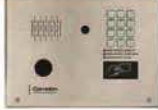





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COMNET CNFE1EOC-M/C MODEM, ETHERNET OVER TWISTED PAIR OR
Our Price: **\$492.00**

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CAMDEN CV-TAC4M MODEM
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