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WHAT'S NEW
PRODUCTS
SOLUTIONS
DESIGN
APPNOTES
SUPPORT
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Maxim/Dallas > App Notes

Application Notes by Category

BY CATEGORY
BY PART NUMBER
NEWEST APPNOTES

Enter any portion of part number(s)

POWER-SUPPLY CIRCUITS

Application Notes for:

- Automotive
- Cable Modem / Satellite TV
- Cell Phone
- Desktop PC / Server
- Digital Camera
- Fiber Module
- LCD / Flat Panel / Backlight / Display
- Network / Telecom / WLAN
- Notebook Computer
- Other
- PDA / Hand Terminal
- Printer / Fax
- RAID

Application Notes by Topology:

- Boost / Step-Up
- Buck / Step-Down
- Buck-Boost / Step Up-Down
- Charge Pump
- Current Sensing
- Flyback / Isolated / Transformer
- Inverter / Negative Output
- Linear Regulator / LDO
- MOSFET Driver
- USB / Hot-Swap / Load Switching
- White-LED Power

ALSO SEE: [Power-Supply Cookbook](#) — Tested designs, with bill of materials, to meet your specs.

TOPOLOGY: Buck / Step-Down

App Note 3740
How to Generate Auxiliary Supplies from a Positive Buck DC-DC Converter
App Note 3767
Meeting the Challenges of Power-Supply Design for Modern, High-Current CPUs
App Note 3753
Thermistor Linearizes Current Limit
App Note 3672
Noise Reduction for the MAX1864 Auxiliary Regulator
App Note 3668
High-Efficiency Current Drive for High-Brightness LEDs
App Note 3638
2.2MHz Buck or Boost Power Supply for ADSL2+ Chipset
App Note 3626
Adding a Watchdog to a Dual-Output Power Supply
App Note 3603
Buck Converters Proliferate in Handhelds as Features and Processing Power Increase
App Note 3581
MAX5074 5V, 3A Reference Design
App Note 3560
High-Efficiency DC-DC Converter Fits LDO Footprint
App Note 3519
Integrated DC-DC Converters Save Space and Design Time in Distributed-Power Systems
App Note 3499
Compact-Footprint, 60A, Two-Phase Power Supply for AMD K8 Motherboards
App Note 3434
RF Power Reduction for CDMA/W-CDMA Cellular Phones

App Note 3442	Simple PSPIICE Model Predicts MAX8546 Stability and Transient Response
App Note 3244	3mm-Tall, Dual-Phase, Step-Down, DC-DC Converter Delivers 1.6V at 20A from 12V for Mobile Processor Cores
App Note 3440	An Accurate Control Loop Model for Current-Mode Step-Down Controllers
App Note 3356	MAX1917 Provides Pre-Bias Soft Start for Redundant Supply
App Note 3324	Buck Regulator Forms High-Power Inverting -5V Supply
App Note 3247	RF Power Amplifier Efficiency Improves with Varied Vcc, from DC-DC Supply
App Note 3174	Selecting Power Management for Cellular Handsets
App Note 2997	Basic Switching-Regulator-Layout Techniques
App Note 2767	DAC Makes Controller Programmable
App Note 1901	Convert the MAX1937/8/9 from Latch Off Mode to Hiccup Mode Under Short Circuit Condition
App Note 1897	Building a Power Supply That Works
App Note 1882	Increase the Power of a Buck (Step-Down) Switching Power Supply IC
App Note 1857	DDR Memory-Termination Supply
App Note 1845	Choosing the Right DC-DC Converter for Automotive Applications
App Note 1832	Power Supply Engineer's Guide to Calculate Dissipation for MOSFETs in High-Power Supplies
App Note 225	Using Digital Potentiometers in Adjustable Step-Down DC-DC Converter Designs
App Note 1782	Small Footprint, 10us Response Time, 10mV Output Ripple, 1MHz, 6A Step-Down Regulator
App Note 1775	Power Supply for DDR-SDRAM Termination Operates From 3V to 5.5V Input
App Note 1157	Parallel-Port Interface Powers Low Voltage Systems
App Note 716	Proper Layout and Component Selection Controls EMI
App Note 1153	MAX1967 Efficiency Improvement with 3.3V Input
App Note 672	Power Supplies for Pentium, PowerPC, and Beyond
App Note 1062	Designing Compact Telecom Power Supplies
App Note 986	Input and Output Noise in Buck Converters Explained
App Note 1149	DDR Memory-Termination Supply
App Note 1147	Simple Current Source Determines the MAX1802 Auxiliary Controller Switching Frequency
App Note 280	Power Supplies for Telecom Systems
App Note 1135	Small Capacitor Improves Efficiency in High-Power CPU Supply
App Note 1121	Using Ceramic Output Capacitors with the MAX1734 Voltage-Mode Buck Converter
App Note 1077	DC-to-DC Converter Combats EMI
App Note 1053	VDDQ Supply for Server DDR Memory Using PWM Step-Down Controller

- App Note 1045
[One Megahertz Adaptable Power Supply Meets XENPAK MSA Specification](#)
- App Note 1044
[Design of Graphic Chip and Related Circuitry Power Supplies Using MAX1953 1MHz PWM Step-down Controller](#)
- App Note 1014
[Design Case Study: Designing a Power Supply for a Portable, Wireless Contact Manager](#)
- App Note 993
[Adding Voltage Droop to DDR Memory Termination Voltage Supply Reduces Output Capacitance](#)
- App Note 967
[How to Minimize Power Dissipation in Li+ Linear Chargers](#)
- App Note 959
[Dual 600mA Buck Converter for Logic Supply and Core Supply at 1V or Less](#)
- App Note 945
[Step-Up Controller Forms Negative Step-Down Regulator](#)
- App Note 735
[Layout Considerations for Non-Isolated DC-DC Converters](#)
- App Note 2031
[DC-DC Converter Tutorial](#)
- App Note 752
[Creating a Fast Load Transient](#)
- App Note 737
[Choosing the Right Power-Supply IC for your Application](#)
- App Note 841
[Multiple Output Power Supplies with Output Sequencing](#)
- App Note 821
[The MAX1864/MAX1865 Compensation Calculator](#)
- App Note 1205
[W-CDMA Power Supply Dramatically Improves Transmit Efficiency](#)
- App Note 673
[5-to-1.8V Converter Works Without Magnetics](#)
- App Note 1180
[High-Accuracy Current-Sense Amplifier Enables Current Sensing and Current Sharing](#)
- App Note 479
[All-Ceramic 320mA Step-Down Converter for USB](#)
- App Note 473
[Maxim's Integrated Power Supplies Provides a Highly Reliable and Space-Saving Approach to Post-Regulators](#)
- App Note 478
[Current-Limit Circuit for the Buck Regulator](#)
- App Note 269
[Trading Performance for Cost in Portable Power Supplies](#)
- App Note 678
[Turnkey Power-Supply Solutions Power Pentium Pro® \$\mu\$ Ps](#)
- App Note 260
[Miniature Temperature Monitors Drive 3-Speed Fan Controller](#)
- App Note 998
[5V Step-Down Converter Has Transformer-Isolated Feedback](#)
- App Note 551
[Negative Buck Regulator Produces Positive Output](#)
- App Note 930
[Synchronous Buck-Regulator Output Terminates High-Speed Data](#)
- App Note 59
[Flyback Winding Adds 12V Output To 5V Buck Regulator](#)
- App Note 933
[Negative Buck Regulator Employs Step-Up Controller](#)

[Return to Category Index](#)

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