

FTP directory /ftp/index/doc/netinfo/UUNET/ at ftp.funet.fi

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[Up to higher level directory](#)

08/11/1999 12:00AM	Directory	ClariNet
08/11/1999 12:00AM	Directory	PrenticeHall
08/11/1999 12:00AM	Directory	Services
08/11/1999 12:00AM	Directory	Telebit-Info

ARRIS EX. 1027

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09/14/1992 12:00AM	2,022	900
09/14/1992 12:00AM	18,693	AlterNet.egg.ps.Z
09/14/1992 12:00AM	52,455	AlterNet.ps.Z
09/14/1992 12:00AM	785	access
09/14/1992 12:00AM	159	active
09/14/1992 12:00AM	49,565	active.Z
09/14/1992 12:00AM	11,475	alternet
09/14/1992 12:00AM	71,778	aw-books
09/14/1992 12:00AM	1,600	book-offer
05/28/1991 12:00AM	44,967	compu-dialins
09/14/1992 12:00AM	10,966	compu-dialins.Z
09/14/1992 12:00AM	17,419	domain-info
09/14/1992 12:00AM	1,574	for-help
09/14/1992 12:00AM	4,354	general-info
09/14/1992 12:00AM	2,091	holt-books
09/14/1992 12:00AM	1,411	index
09/14/1992 12:00AM	1,014	info-pkg
09/14/1992 12:00AM	11,475	ip-access
09/14/1992 12:00AM	20,534	jw-books
09/14/1992 12:00AM	1,098	low-volume
09/14/1992 12:00AM	980	ls-lR.Z
09/14/1992 12:00AM	1,893	modem-prices
09/14/1992 12:00AM	87,293	newsgroups.Z
09/14/1992 12:00AM	2,371	nutshell-books
09/14/1992 12:00AM	49,417	ph-books
09/14/1992 12:00AM	1,766	source-tapes
09/14/1992 12:00AM	2,254	subscript-rates
09/14/1992 12:00AM	154	sys
09/14/1992 12:00AM	121,935	sys.Z
09/14/1992 12:00AM	1,827	tac
09/14/1992 12:00AM	5,169	ups-info
09/14/1992 12:00AM	15,710	us-domain
09/14/1992 12:00AM	253	uunet-canada
09/14/1992 12:00AM	287	uunet-india
09/14/1992 12:00AM	45,969	uunet-map

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03/08/1991 12:00AM	4,033	MASS.setup.Z
08/11/1999 12:00AM	Directory	PRODUCTS
03/08/1991 12:00AM	1,725	PRODUCTS.list.Z
03/08/1991 12:00AM	2,615	SETUPS.list.Z
03/08/1991 12:00AM	5,321	SUN.setup.Z
03/08/1991 12:00AM	5,321	SUN3.setup.Z
03/08/1991 12:00AM	5,053	SUN386i.setup.Z
03/08/1991 12:00AM	5,185	SUN4.setup.Z
03/08/1991 12:00AM	5,441	SUNSPARC.setup.Z
03/08/1991 12:00AM	5,446	SUNSPARC_4.1.setup.Z
03/08/1991 12:00AM	4,829	UNISYS.setup.Z
03/08/1991 12:00AM	19,008	UNIX.setup.Z
03/08/1991 12:00AM	4,060	UNIXPC.setup.Z
03/08/1991 12:00AM	2,971	UUNET900.setup.Z
03/08/1991 12:00AM	4,757	VAX.setup.Z
03/08/1991 12:00AM	4,207	XENIX22X.setup.Z
03/08/1991 12:00AM	936	ls-1.Z
03/08/1991 12:00AM	918	ls-1R.Z
03/08/1991 12:00AM	3,437	ppp.doc.Z
03/08/1991 12:00AM	5,294	slip.doc.Z
03/08/1991 12:00AM	5,308	tech.doc.Z
03/08/1991 12:00AM	3,071	upgrade.doc.Z
03/08/1991 12:00AM	1,872	warranty.doc.Z

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03/08/1991 12:00AM	3,581	CBLAZER.intro.Z
03/08/1991 12:00AM	1,300	T1000.intro.Z
03/08/1991 12:00AM	3,851	T2500.intro.Z
03/08/1991 12:00AM	5,693	cellblazer.Z
03/08/1991 12:00AM	5,579	cellblazer.pc.Z
03/08/1991 12:00AM	5,227	t1000.Z
03/08/1991 12:00AM	4,792	t1000.pc.Z
03/08/1991 12:00AM	8,296	t2000.Z
03/08/1991 12:00AM	6,157	t2500.Z
03/08/1991 12:00AM	4,412	t9000.rm.Z
03/08/1991 12:00AM	4,763	tb+pc.Z
03/08/1991 12:00AM	4,762	tb+ps2.Z
03/08/1991 12:00AM	5,158	trailblazer+.Z

A BRIEF TECHNICAL OVERVIEW OF TELEBIT MODEMS

By Michael Ballard, Director, Network Systems, Telebit Corp.
Edited by C. E. Castillo, UNIX Communications Specialist, Telebit Corp.

Before starting on this document, a caveat: this document is intended to address many of the questions and comments about TELEBIT modems that have appeared from the user community. We are striving to provide as much information as possible, in such a way that will be useful to the widest group of readers. This is NOT intended to be a Marketing Article, but rather a technical overview for the more sophisticated reader. Its purpose is to inform, not to sell product. If anyone is offended by Telebit taking this action, please mail directly to us first, to avoid cluttering the newsgroup. Thank you.

I would like to provide some background for Unix users considering the use of a TELEBIT high-speed dialup modem. I served as project manager and principal programmer for Telebit's protocol support development. The UUCP "g", Kermit, Xmodem and Ymodem protocols are directly supported in the firmware of all TELEBIT modems. Peter Honeyman, co-developer of ATT's HoneyDanBer/BNU UUCP, coded those portions of the firmware which support the "g" protocol.

TELEBIT modems employs a patented multicarrier modulation scheme coined DAMQAM (Dynamically Adaptive Multicarrier Quadrature Amplitude Modulation). A CRC-16 based sliding window protocol with selective retransmission runs on top of this modulation scheme insuring data integrity across the phone line. This telephone line protocol is known as the Packetized Ensemble Protocol or PEP. PEP is the trademark by which all modems employing this technique can be recognized.

This technique (DAMQAM) divides the voice bandwidth into 511 individual channels each capable of passing 2, 4, or 6 bits per baud based on the measured characteristics of the individual frequencies associated with each channel. On a typical phone connection, the modem uses a subset of about 400 of those channels.

Each time the modem connects to a circuit established on the dialup Public Switched Telephone Network (PSTN), the TELEBIT modem measures the quality of the connection, and determines the usable subset of the 511 carriers. The aggregate sum of bits modulated on this subset of carriers multiplied times the baud rate yields a bit per second rate that on a local telephone connection (i.e. round trip through your local telco) is 18031 bps. This 18031 bps is then reduced by about 20% to allow for the CRC overhead, to about 14400 bps of data throughput.

Long distance line quality varies with location and carrier, but you can expect this number to be in the 10000 to 17000 bps range under most conditions domestically. By choosing a high quality long distance carrier, you will ensure the best throughput overall.

The modem operates at 7.35 and 88.26 baud, transparently changing baud rates to accomodate the pace and quantity of data traffic. When in "interactive mode" the modem sends data using 11 msec packets (which run at 88.26 baud). Each packet contains 15 bytes of data. In "file transfer mode" the modem uses 136 msec packets (that transfer at 7.35 baud) that contain 256 bytes of data.

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