

Acronyms and Abbreviations used in Data Communications

1x	one times (a standard CDMA 1.25 MHz channel)
2G	2 nd generation (cellular)
3DES	triple data encryption standard
3G	3 rd generation (cellular)
3GPP	3 rd Generation Partnership Project
4G	4 th generation (cellular)
A/D or ADC	analog to digital conversion
AAA	authentication, authorization, accounting
AAS	adaptive antenna system
AES	advanced encryption standard
AI	air interface
AK	authorization key
AM	amplitude modulation
AMC	adaptive modulation and coding
AP	access point
API	applications programming interface
ARQ	Automatic Repeat reQuest
ASN	access service network
ASP	application service provider
ATM	asynchronous transfer mode
BE	best effort
BEC	backward error correction
BER	bit error rate
BPL	broadband powerline
BPSK	binary phase shift keying
BREW	Binary Runtime Environment for Wireless
BRI	(ISDN) Basic Rate Interface
BS	base station
BTC	block turbo codes
BW	bandwidth
BWA	broadband wireless access
C/I	carrier to interference ratio
Cad	Cadmium
CAT-3	category 3 (voice/low performance data grade) cable
CAT-5[e]	category 5 (data grade) cable
CAT-6	category 6 (enhanced data grade) cable
CB	citizens' band radio
CBC	cipher block chaining
CBR	constant bit rate
CCIR	Comité Consultatif International des Radiocommunications
CCIT	Comité Consultatif International de Télégraphique et Téléphonique
CCK	complementary code keying
CCM	counter with CBC-MAC
CCMP	counter mode with cipher block chaining message authentication code protocol
CDG	CDMA Development Group
CDMA	code division multiple access
CDPD	cellular digital packet data
CGI	common gateway interface
CID	connection identifier
CIR	committed information rate

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CLP	cell loss priority
CMAC	cipher-based message authentication code
CMIP	client-based mobile IP
CNR	carrier-to-noise ratio
CO	central office
CPE	customer premise equipment
CRC	cyclic redundancy check
CS	convergence sublayer
CSMA/CA	Carrier Sense Multiple Access with Collision Avoidance
CSMA/CD	Carrier Sense Multiple Access with Carrier Detection
CSN	connectivity service network
CSU	channel service unit
CTC	convolutional turbo code
CTR	counter
DAC	digital to analog conversion
DAVIC	Digital Audio Video Council
dB	decibel
dBm	decibel compared to a milliwatt
dBW	decibel compared to a watt
DC	direct current
DCE	data circuit-terminating equipment
DE	discard eligibility
DES	data encryption standard
DHCP	Dynamic Host Configuration Protocol
DL	downlink
DLCI	Data Link Connection Identifier
DMZ	demilitarized zone
DNS	domain name system
DOCSIS	data over cable service interface specifications
DPM	data-processor module
DS	digital signal
DS-0	digital signal, level 0
DS-1	digital signal, level 1
DSL	digital subscriber line
DSSS	direct sequence spread spectrum
DSU	data service unit
DTE	data terminating equipment
EAP	extensible authentication protocol
EBCDIC	Extended Binary Coded Decimal Interchange Code
ECB	electronic code block
EDGE	enhanced data rates for global evolution
EHF	extremely high frequency
EIA	Electronic Industries Association
ELF	extremely low frequency
email	electronic mail
EMI	electromagnetic interference
eqpt	equipment
ERC	European Radio Committee
ETC	enhanced throughput cellular
ETSI	European Telecommunication Standards Institute
EV-DO	evolution, data optimized

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EV-DV	evolution, data and voice
FA	foreign agent
fax	facsimile
FCC	Federal Communications Commission
FDD	frequency division duplex
FDDI	Fiber Distributed Data Interface
FDM	frequency division multiplex
FDMA	frequency-division multiple access
FEC	forward error correction
FECN	forward explicit congestion notification
FFT	fast Fourier transform
FH(SS)	frequency hopped (spread spectrum)
FHDC	frequency hopping diversity coding
FM	frequency modulation
FR	frame relay
FSK	frequency shift keying
FT1	fractional T-1
FTP	file transfer protocol
FTTC	fiber to the curb
FTTH	fiber to the home
FTTN	fiber to the neighborhood
FUSC	full usage of subcarriers
FWA	fixed wireless access
Gbps	gigabits (10 ⁹) per second
GEO	geosynchronous earth orbit
GHz	gigahertz
GPRS	general packet radio service
GSM	Global System for Mobile communication
GW	gateway
HA	home agent
H-ARQ	hybrid automatic repeat request
HDLC	High-level Data Link Control protocol
HDML	handheld device markup language
HDSL	high bit rate digital subscriber line
HF	high frequency
HFC	hybrid fiber coax
H-FDD	half duplex FDD
HiperLAN	high performance local area network
HiperMAN	high performance metropolitan area network
HMAC	hashed message authentication code
HSDPA	high speed downlink packet access
HSPA	high speed packet access
HSUPA	high speed uplink packet access
HTML	HyperText Markup Language
HTTP	HyperText Transfer Protocol
Hz	Hertz (cycles per second)
I	ampere(s)
ICMP	Internet Control Message Protocol
ID	identifier
IDSL	ISDN-like digital subscriber line
IEEE	Institute of Electrical and Electronic Engineers

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IETF	Internet Engineering Task Force
IF	intermediate frequency
IFFT	inverse fast Fourier transform
IN	Intelligent Network
IP	Internet Protocol
IPv6	IP version 6
IrDA	Infrared Data Association
IS	interim standard
ISDN	Integrated Services Digital Network
ISM	industrial, scientific, medical
ISO	International Standards Organization
ISP	Internet service provider
IT	Information Technology
ITU	International Telecommunications Union
J2ME	Java 2 Platform, Micro Edition
JPEG	Joint Picture Expert Group
kbps	kilobits (10^3) per second
KEK	key encryption key
kg	kilogram
km	kilometer
LAN	local area network
LAP-B (or D)	Link Access Protocol - B (or D)
LDPC	low-density parity check
LED	light emitting diode
LEO	low earth orbit
LF	low frequency
Li	Lithium
LLC	Logical Link Control protocol
LMDS	local multipoint distribution system
LOS	line of sight
LTE	long term evolution
m	meter
MAC	Medium Access Control protocol layer
MAN	metropolitan area network
Mbps	megabits (10^6 bits) per second
MBS	multicast broadcast security service
MEO	medium earth orbit
MER	message error rate
MF	medium frequency
MHz	megahertz
mi	mile
MIB	management information base
MIMO	multi-input multi-output (antenna)
MMDS	microwave (or multichannel) distribution service
MNP	Microcom Network Protocol
MoU	Memorandum of Understanding
MPDU	MAC protocol data unit
MPEG	Motion Picture Expert Group
MS	mobile station
MTBF	mean time between failures
MTK	MBS traffic key

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mux	multiplexor
mW	milliwatt
NAP	network access provider
NAT	Network Address Translation
Ni	nickel
NIC	network interface card
NIU	network interface unit
NLOS	non line of sight, near line of sight
nm	nanometer (10^{-9} meter)
NMS	network management system
NNE	network node equipment
NOC	network operations center
nrtPS	non-real-time polling service
ns	nano-second
NSP	network service provider
OC	optical carrier
ODU	outdoor data unit
OFDM	orthogonal frequency division multiplex
OFDMA	orthogonal frequency division multiple access
OSI	open system interconnect
PAN	personal area network
PC	personal computer
PCM	pulse code modulation
PCS	personal communication services (or system)
PCT	protocol conformance test
PDA	personal digital assistant
PDC	Pacific Digital Cellular
PDU	protocol data unit
PER	packet error rate
PF	policy function
PHS	Personal Handyphone System
PHY	Physical layer
PICS	protocol (or profile) implementation conformance statements
PKI	public key infrastructure
PKM	public key management
PLC	powerline carrier
PMIP	proxy-based mobile IP
PMP	point to multipoint
PMP	point to multipoint
POCSAG	Post Office Code Standardization Advisory Group
POP3	Post Office Protocol 3
POTS	plain old telephone service
PR	pseudo random
PRI	(ISDN) Primary Rate Interface
ps	pico-second
PSK	phase shift keying
PSTN	public switched telephone network
PtP	point to point
PUSC	partial usage of subcarriers
PVC	permanent virtual circuit
QAM	quadrature amplitude modulation

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QoS	quality of service
QPSK	quadrature phase shift keying
RCT	radio conformance test
RF	radio frequency
RFI	radio frequency interference
RFID	RF Identification
RS	Reed-Solomon
RSA	Rivest, Shamir, Aldeman
RSSI	received signal strength indicator
RTP	Real Time Protocol
rtPS	real-time polling service
RTT	round trip time
RTT	radio transmission technology
rx	receive
SA	security association
SAN	storage area network
SAP	service access point
SAR	segmentation and reassembly
SC	single carrier
SCSI	Small Computer System Interface
SDH	synchronous digital hierarchy
SDLC	Synchronous Data Link Control protocol
SDSL	symmetric digital subscriber line
SDU	service data unit
SFID	service flow identifier
SGML	standard generalized markup language
SHF	super high frequency
SIM	Subscriber Identity Module
SIP	Session Initiation Protocol
SLA	Service Level Agreement
SMDS	switched multimegabit data service
SMS	short message service
SMTP	Simple Mail Transfer Protocol
SNA	Systems Network Architecture
SNMP	Simple Network Management Protocol
SNR, S/N	signal to noise ratio
SOHO	small office home office
SONET	synchronous optical network
sps	symbols per second
SS	subscriber station
SSID	Service Set Identifier
STBC	space time block coding
STC	space time coding
STM	synchronous transport module
STS	synchronous transport signal
STTD	space time transmit diversity
SVC	switched virtual circuit
SWAP	Shared Wireless Access Protocol
Tbps	terabits (10 ¹² bits) per second
TCP	Transmission Control Protocol
TDD	time division duplex

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TDM	time division multiplex
TDMA	time division multiple access
TEK	traffic encryption key
telco	telephone company
TIA	Telecommunications Industries Association
TLS	transport layer security
TP	test purposes
TSS	test suite structure
TV	television
tx	transmit
UDP	User Datagram Protocol
UGS	unsolicited grant service
UHF	ultra high frequency
UL	uplink
UMTS	Universal Mobile Telecommunications System
U-NII	unlicensed national information infrastructure
USB	Universal Serial Bus
UTP	unshielded twisted pair
UTRA	UMTS Terrestrial Radio Access
UWB	Ultra Wideband
UWCC	Universal Wireless Communications Consortium
V	volt(s)
VDSL	very high speed digital subscriber line
VHE	Virtual Home Environment
VHF	very-high frequency
VLf	very low frequency
VOIP	voice over Internet Protocol
VPN	virtual private network
vs	versus
VSAT	very small aperture [satellite ground] terminal
W	watt
WAN	wide area network
WAP	Wireless Application Protocol
WAV	wave audio file type/extension
WCDMA	wideband CDMA
WDM	wavelength division multiplex
WEP	Wireline Equivalent Privacy
Wh	Watt-hour
WiBRO	wireless broadband
Wi-Fi	Wireless Fidelity
WiMAX	Worldwide Interoperability for Microwave Access
WLAN	wireless local area network
WML	wireless markup language
WTP	wireless transaction protocol
WUSB	Wireless Universal Serial Bus
WWW	world wide web
XML	extensible markup language