

Courier 56K Business Modem Commands

This card provides a quick reference for the most commonly used AT commands. Defaults in **bold type**.

REMARQUE: Refer to the Alphabetic Command Summary, in the Command Reference on the Installation CD-ROM for additional commands, like the Percent (%) and Octothorpe (#) command sets.

Basic Command Set

Command/Description

\$	Displays Help for the basic command set
+++	Escape code
>	Repeat command (up to 10 attempts)
A	modem answers when there's no incoming call
A/	Reexecutes the last-issued command
A>	Repeats the last issued command until canceled
AT	Attention prefix
B <i>n</i>	Sets handshaking options: B0 ITU-T V.32 originate mode B1 HST originate mode; Bell answer tone
C <i>n</i>	Sets transmitter C0 Transmitter off C1 Transmitter on
D <i>n</i>	Dials phone numbers and issues commands for dialing options: P Pulse dial T Tone dial , (Comma) Pause for 2 seconds ; (Semicolon) Return to command mode after dialing “ Dial the letters that follow W Wait for a second dial tone (if X3 or higher) @ Wait for an answer (with X3, X4 or X7) / Pause for 125 milliseconds R Reverse frequencies ! Flash the switchhook L? Display the last-dialed number L Redial the last number S <i>n</i> Dial number stored in non-volatile random access memory (NVRAM) at position <i>n</i> \$ Display Help for the dial commands
E <i>n</i>	Command mode echo E0 Echo OFF; What you type will not display E1 Echo On; What you type will display
F <i>n</i>	Online local echo F0 Echo ON F1 Echo OFF
H <i>n</i>	On/Off hook control

H0	Go on hook (hang up)
H1	Go off hook (pick up)
I <i>n</i>	Queries the modem I3 Banner I4 Current settings I5 NVRAM settings I6 Statistics for preceding call I7 Product configuration I10 Dial security account status I11 Extended Link Screen I15 Caller ID information
K <i>n</i>	Controls the modem clock K0 If online, current call duration K1 Displays real time Controls speaker volume L0 Low volume L1 Low volume L2 Medium volume L3 High volume
M <i>n</i>	Controls when the speaker sounds M0 Always OFF M1 ON until call is negotiated M2 Always ON M3 ON after last digit is dialed
O <i>n</i>	Return online; use with escape code (+++) O0 Return online O1 Return online and retrain
P	Pulse dial
Q <i>n</i>	Enables or disables the display of result codes Q0 Display Q1 Suppress (quiet) Q2 Suppress when answering
S <i>r</i> = <i>n</i>	Sets S-register value; <i>r</i> is any S-Register; <i>n</i> must be a decimal between 0 and 255
S <i>r</i> . <i>b</i> = <i>n</i>	Sets bit-mapped register; <i>r</i> is the S-register, <i>b</i> is the bit, and <i>n</i> is 0 (OFF) or 1 (ON)
S <i>r</i> ?	Queries contents of S-register <i>r</i>
S\$	Displays s-register help
T	Tone dial
V <i>n</i>	Displays result codes verbally or numerically V0 Numeric V1 Verbal X <i>n</i> Call progress reporting X3 Ignore dial tone X4 Microsoft® default X7 Courier V.Everything Modem default
Z	Software reset
Z!	Hardware reset

Ampersand (&) Command Set

Command/Description

&\$	Displays Help for the ampersand (&) command set
&A <i>n</i>	Enables or disables the additional result code subsets &A0 Disables the display of additional result codes &A1 Displays ARQ result codes &A2 Displays ARQ result codes, modulation indicators &A3 Displays ARQ result codes, modulation indicators, and error control indicator
&B <i>n</i>	Sets the serial port rate &B0 Variable &B1 Fixed &B2 Fixed serial port rate in ARQ mode; variable rate in non-ARQ mode
&C <i>n</i>	Controls Carrier Detect (CD) &C0 CD always on &C1 Normal CD operations
&D <i>n</i>	Controls Data Terminal Ready (DTR) &D0 Ignore DTR &D1 Online command mode with DTR toggle &D2 Normal DTR operations &D3 Modem resets with DTR toggle
&F <i>n</i>	Loads configuration template &F0 Loads No flow control template &F1 Loads Hardware flow control template &F2 Loads Software flow control template
&G <i>n</i>	Sets guard tone &G0 No guard tone (U.S., Canada) &G1 Guard tone (Some European countries) &G2 Guard tone (UK); requires ATB0
&H <i>n</i>	Transmit Data flow control &H0 Disables Transmit Data flow control &H1 Hardware Clear to Send (CTS) flow control &H2 Software flow control (XON/XOFF) &H3 Hardware and software flow control
&I <i>n</i>	Received Data software flow control &I0 Disables XON/XOFF flow control &I1 Modem acts on XON/XOFF commands and passes them to the remote device &I2 Modem acts on XON/XOFF commands and removes commands from the data stream (recommended for ARQ mode) &I3 External: Hewlett Packard-Host mode (ARQMode Only) &I4 External:Hewlett Packard-Terminal mode (ARQMode Only) &I5 XON/XOFF in non ARQ Mode
&K <i>n</i>	Enables or disables data compression &K0 Disable &K1 Auto enable/disable &K2 Enable &K3 Selective compression (V.42 bis only)

&M <i>n</i>	Error control &M0 Normal mode; no error control &M4 Normal /ARQ mode &M5 Asynchronous ARQ mode
&N <i>n</i>	Sets fixed link speed
&N <i>n</i> &U <i>n</i>	Sets highest and lowest link speeds <i>n</i> = 0 Variable connection rate <i>n</i> = 1 300 bps <i>n</i> = 21 33.3 Kbps <i>n</i> = 2 1200 bps <i>n</i> = 22 34.6 Kbps <i>n</i> = 3 2400 bps <i>n</i> = 23 36.0 Kbps <i>n</i> = 4 4800 bps <i>n</i> = 24 37.3 Kbps <i>n</i> = 5 7200 bps <i>n</i> = 25 38.6 Kbps <i>n</i> = 6 9600 bps <i>n</i> = 26 40.0 Kbps <i>n</i> = 7 12.0 Kbps <i>n</i> = 27 41.3 Kbps <i>n</i> = 8 14.4 Kbps <i>n</i> = 28 42.6 Kbps <i>n</i> = 9 16.8 Kbps <i>n</i> = 29 44.0 Kbps <i>n</i> = 10 19.2 Kbps <i>n</i> = 30 45.3 Kbps <i>n</i> = 11 21.6 Kbps <i>n</i> = 31 46.6 Kbps <i>n</i> = 12 24.0 Kbps <i>n</i> = 32 48.0 Kbps <i>n</i> = 13 26.4 Kbps <i>n</i> = 33 49.3 Kbps <i>n</i> = 14 28.8 Kbps <i>n</i> = 34 50.6 Kbps <i>n</i> = 15 31.2 Kbps <i>n</i> = 35 52.0 Kbps <i>n</i> = 16 33.6 Kbps <i>n</i> = 36 53.3 Kbps <i>n</i> = 17 28.0 Kbps <i>n</i> = 37 54.6 Kbps <i>n</i> = 18 29.3 Kbps <i>n</i> = 38 56.0 Kbps
&R <i>n</i>	Received Data (RTS) hardware flow control &R0 Delay clear to send (CTS) response after RTS &R1 Ignore RTS &R2 Send data to the computer on receipt of RTS
&S <i>n</i>	Data Set Ready (DSR) signal from modem to pc &S0 DSR always on &S1 Originate mode: Send DSR after dialing Answer mode: Send DSR after tone &S2 Pulsed DSR with CTS following CD &S3 Same as &S2, but without CTS &S4 Simultaneous DSR with CD &S5 Send DSR, and follow CTS with CD
&W	Writes the current settings to NVRAM
&Z <i>n</i> = <i>s</i>	Stores up to 80 phone numbers in NVRAM at position <i>n</i> where <i>n</i> = 0-79
&Z <i>n</i> ?	Displays the stored phone number

S-Registers

Register/Default/Function

S0	0	Sets the number of rings before Auto Answer
S1	0	Counts and stores number of rings from calls
S2	43	Stores code for the escape code character
S3	13	Stores the code for the carriage return
S4	10	Stores the code for the line feed character
S5	8	Stores the code for the back space character
S6	2	Stores the wait time for dial tone
S7	60	Stores the wait time for carrier
S8	2	Sets the comma time in seconds
S9	6	Sets duration (1/10 of sec.) of remote carrier signal before modem recognition
S10	14	Sets duration (1/10 of sec.) modem waits after loss of carrier before hanging up
S11	70	Set touch tones spacing in 1/10 seconds.
S12	50	Sets the guard time for the escape code
S13	32	Bit-mapped register
	Bit	Value
	0	1
	1	2
	2	4
	3	8
	4	16
	5	32
	6	64
	7	128
S14	0	Bit-mapped register
	Bit	Value
	0	1
S15	0	Bit-mapped register
	Bit	Value
	0	1
	1	2
	2	4
	3	8
	4	16
	5	32
	6	64
	7	128
S19	0	Sets the inactivity timeout, in minutes
S21	10	Length of break in ARQ mode, 1/100 seconds
S22	17	Stores the ASCII code for the XON character
S23	19	Stores the ASCII code for the XOFF character
S24	150	Sets DSR pulse time in 20-milliseconds
S25	5	Sets DTR recognition in 10-milliseconds
S26	1	Sets the RTS/CTS delay, 10-milliseconds

S27	0	Bit-mapped register
	Bit	Value
	0	1
	1	2
	2	4
	3	8
	4	16
	5	32
	7	128
	Bit4	Bit5
	0	0
	16	0
	0	32
	16	32
S28	8	Sets duration, in tenths of a second, of extra 3000/600 Hz answer tones
S29	20	Sets, in tenths of a sec, of the V.21 answer tone
S34	0	Bit-mapped register
	Bit	Value
	0	1
	1	2
	2	4
	3	8
	4	16
	6	64
	7	128
S38	0	Sets duration, in seconds, before a forced hang up
S41	0	Sets number of attempts for remote access
S42	126	Stores the ASCII code for remote access escape
S43	200	Sets the guard time for the remote access sequence, in 1/50th of a second
S44	15	Leased line delay timer
S51	0	Bit-mapped register
	Bit	Value
	0	1
	1	2
	2	4
	6	64
S53	0	Bit-mapped register
	Bit	Value
	0	1
	1	2
	2	4
	1	2
	2	4
S54	64	Symbol bit-mapped register
	Bit	Value
	0	1
	1	2
	2	4
	3	8
	4	16
	5	32
	6	64
	7	128
S55	0	Trellis code bit-mapped register

	Bit	Value	Result
	0	1	Disable 8S-2D trellis code
	1	2	Disable 16S-4D trellis code
	2	4	Disable 32S-2D trellis code
	3	8	Disable 64S-4D trellis code
	7	128	Enable phase roll detection
S56	0	Bit-mapped register	
	Bit	Value	Result
	0	1	Disable non-linear coding
	1	2	Disable TX level deviation
	2	4	Disable preemphasis
	3	8	Disable precoding
	4	16	Disable shaping
	5	32	Disable V.34+
	6	64	Disable V.34
	7	128	Disable V.FC
S58	0	Bit-mapped register	
	Bit	Value	Result
	5	32	Disables V.90
	6	64	Disables V.92
S69	0	Bit-mapped register	
	Bit	Value	Result
	0	1	Disables plug/play signalling
	1	2	Enables carrier loss redial
S70	0	Bit-mapped register	
	Bit	Value	Result
	0	1	Enables recognition of Ring A
	1	2	Enables recognition of Ring B
	2	4	Enables recognition of Ring C
	3	8	Enables recognition of Ring D

USRobotics®

Courier 56K Business Modem

Quick Reference Card

R24-0735.00
rev %" (/##

Copyright© 2011 U.S. Robotics Corporation. All rights reserved.
U.S. Robotics and the U.S. Robotics logo are registered trademarks of U.S. Robotics Corporation. Other product names are for identification purposes only and may be trademarks of their respective companies. Product specifications subject to change without notice.

Printed in xxxxxxxx