You may enter a command line of up to 80 characters in upper or lower case with the first command in the line preceded by an AT or at and the last command followed by a carriage return.

The notation (n) in the descriptions represents a decimal numeric option, and (x) represents an assigned value. The parentheses should not be typed. If a command is typed without a value when one is expected, the modem will assume a value of zero.

The option should immediately follow the command. For example, to turn off the result codes, type Q1 not Q=1.

You can repeat the last command line issued by entering A/ or a/. Do not begin the A/ with the AT prefix, and do not follow the A/ with a return.

:::::::::::::::::::::::::

:::::COMMAND SUMMARY:::::

:::::::::::::::::::::::::

Command Parameter Description Default

A Answer

A/ Repeat previous command

B(n) 0 or 1 Bell/CCITT Mode Select B1

D(n) 0,9,A-D,# Dial Number Pulse
Modifiers S= Reference # in ph # dir,
P= Pulse Dialing
T= Tone Dialing
W= Wait for Dialtone
,= Timed wait set by S8
@= Wait for Quiet Answer
;= Stay in command mode after dialing
|= On-hook flash
$= Calling and Billing Prompt
\= Reference a number in number directory R= Switch to answer mode when
remote modem answers
B(n) 0 or 1 Bell/CCITT Mode Select B1

E(n) 0 or 1 Command Echo E1

H(n) 0 or 1 Hook Control
0 Hang up (on hook)
1 Pick up phone line (off hook)

I(n) 0-3, 5 Information
0 Return product ID code
1 Return diagnostic status
2 Report CONNECT status
3 Return firmware version level
5 Last number dialed

L(n) 0-3 Speaker Volume L2

0 No volume
1 Low volume
2 Medium volume
3 High volume

M(n) 0-3 Speaker Mode M1
0 Speaker off
1 Speaker on during connect
2 Speaker always on
3 Speaker on after dialing
until carrier detected.

O(n) 0 or 1 Online
0 Modem in data mode
1 Retrain Equalizers

P Pulse Dialing

Q(n) 0-2 Quiet Enable Q0
0 Return result code for both local
and remote modems
1 No result codes are reported
2 Origin modem reports results codes

T Tone Dialing

V(n) Verbose ON/OFF V1
0 Return numeric response
1 Return English response

X(n) 0-2,4, Result Code Format X1
11-12 0 0-4 result codes
1 Mod speed to 0-5,10-12,48,50
2 Same as X1 with 6-7,52-55
4 Same as X11 with 6-7
11 DTE speed, 0-5,10-18,48,49
12 Same as X4 with 52-53

Y(n) 0 or 1 Long Space Disconnect Y0
0 Modem ignores break
1 Modem disonnects on break

Z(n) 0 or 1 Reset
0 Reset specified by S255
1 Reset and recall profile B

&C(n) 0-6 DCD Control &C0
0 DCD signal is on
1 DCD on after connect
2 DCD on/off specified by S47
3 DCD inverse of CTS
4 DCD on/off by remote modem
5 DCD on only when DTE is on
6 DCD follows the DTR signal when on hook

&D(n) 0-3 DTR Interpretation &D0
0 DTR signal is always true
1 DTR on/off to command mode

2 DTR on/off disconnects
3 DTR on/off resets modem

&F(n) 0-6,8-15, Load Factor Defaults &F0
32-24 0 TTY
1 Unattended answer mode
2 Intelligent answer mode
3 System V (HDB) (UUCP)
4 Ver 2 (BSD) (UUCP)
4.2-4.3 and SCO Xenix
5 Transparent Sync
6 Half-Duplex Transparent synchronous LPDA Dialing 8 MAC/IBM PC with SW
flow control (XON/XOFF)
9 MAC/IBM PC with HW
flow control (RTS/CTS)
10 Leased Line Async Originate
11 Leased Line Async Answer
12 Leased Line Sync Originate
13 Leased Line Sync Answer
14 Half-duplex PEP SLDC with no cmnd set selection
15 Half-duplex PEP SLDC dialing

&G(n) 0-2 Guard Tone Select &G0
0 No guard tones
1 550 Hz gaurd tone
2 21800 Hz gaurd tone

&J(n) 0-2 Jack Type Select &J0
0 &Joo Aux telco leads disabled
1 A/A1 control selected
2 MI/MIC control selected

&L(n) 0 or 1 Leased Line &L0
0 Dial-up line
1 Leased line

&M(n) 0-1,3 Async/Sync Mode Select &M0
0 Equivalent to &Q0
1 Equivalent to &Q2
3 Equivalent to &Q3

&Q(n) 0-3,6 Async/Sync Mode Select &Q0
0 Async mode, use S253
1 Sync mode 1, use S253
2 Sync mode 2, use S253
3 Sync mode 3, use S253
6 Transparent sync mode, use S253

&R(n) 0-8 CTS Control &R3
0 CTS follows RTS per S26
1 CTS is on after CONNECT
2 CTS follows RTS, fixed delay
3 CTS is always on
4 Same as &R; CTS follows DTR when
modem is not connected.
5 Same as &R0 plus modem transmits v.13 pattern 6 Same as &R4 plus modem transmits v.13 pattern 7 CTS follows RTS after delay set by S26

8 CTS control for the SDLC accelerator (S111)

&S(n) 0-4 DSR Control &S0
0 DSR is always on
1 DSR on after answer tone
2 DSR on/off specified by S47
3 DSR on/off depends on DTR
4 DSR turns on after connect is sent to DTE. DSR turns off after carrier is dropped

&T(n) 0,1,3-9 Test Mode &T4

&V(n) 0.. View Active Profile
0 Display Active RAM Profile

&W(n) 0 or 1 Write Current Profile
0 Save to profile specified by S255
1 Save to profile B

&X(n) 0-2 Select Clock Source
0 Generates clock signal
1 DTE generates clock signal
2 Modem derives clock signal

~H Description of the Commands and Registers

~L List Number Directory

~M(n) 0 or 1 Modify Stored Profile
0 Modify Profile A
1 Modify Profile B

~N(n)=(x) Set Number Directory

~U Updates Security Password

~V(n) 0 or 1 View Nonvolatile Profile
0 Display nonvolatile profile A
1 Display nonvolatile profile B

% Remote Modem Access

:::::::::::::::::::::::::

:::::::S REGISTERS:::::::

:::::::::::::::::::::::::

Register Range Description Default

S0 0-255 Answer on Ring 0
S1 0-255 Ring Count
S2 0-255 Escape Character (ASCII) 43
S3 0-127 Command Line Terminator (ASCII) 13
S4 0-127 Line Feed Character (ASCII) 10
S5 0-255 Command Line Character (ASCII) 8
S6 2-255 Pause Before Dialing (sec) 2
S7 1-255 Wait for Carrier Time (sec) 40
S8 0-255 Pulse Time for Comma (sec) 2

S9 1-255 Carrier Detect Time (100 ms) 6
S10 1-255 Carrier Loss Disconnect Time (100 ms) 14
S11 50-255 Touchtone Dialing Timing (ms) 70
S12 0-255 Escape Sequence Guard Time (1/50 sec) 50
S18 0-255 Test Duration Timer 0
S25 5-255 DTR Delay Timing (10 ms) 5
S26 0-255 RTS to CTS Delay Interval (100 ms) 1
S38 0-255 Delay Before Disconnecting 0
S41 0-255 Inactivity Timer (tenths of hours) 0
S45 0-255 Remote Access(0=Disable, 255=Enable) 0
S46 0-3 Call Security 0
0= Callback Security Disabled
1= Callback Security Enabled
2= Callback Security Enabled/Password Reverification
3= Passthroug Security Enabled/No Callback Required
S47 0 or 1 DSR/DCD Delay Time (50 ms) 4
S48 0 or 1 Control Character Mask 0
0= Most Significant Bit is Marked
1= Compare All Eight Bits
S50 0-255 Transmission Spee 0
0= Auto Speed Determination
1= 300bps (Bell 103 or V.21)
2= 1200bps (Bell 212A of V.22)
3= 2400bps (V.22bis)
5= 1200/75 bps (V.23)
6= 9600 bps (V.32)
7= 14400 bps (V.32bis)
254= Use last AT command speed
255= Fast operation (PEP) only
S51 0-255 Interface Speed 4
0= 300 bps
1= 1200 bps
2= 2400 bps
3= 4800 bps
4= 9600 bps
5= 19200 bps
6= 38400 bps
7= 57600 bps
8= 76800 bps
9= 115200 bps
35= 7200 bps
43= 12200 bps
46= 14400 bps
5= 19200 bps
251= Reserved
252= AutoBaud (no type-ahead)
253= AutoBaud (38400 bps default)
254= AutoBaud (19200 bps default)
255= AutoBaud (9600 bps default)
Note: Autobaud does not support 57600, 76800 or 115200 bps
S56 0-255 XON Character (ASCII) 17
S57 0-255 XOFF Character (ASCII) 19
S58 0-4 DTE Flow Control 3
0= No Flow Control
1= RTS/CTS in Half Duplex
2= RTS/CTS in Full Duplex
3= Use XON/XOFF
4= Use XON/XOFF and RTS/CTS
S59 0=255 CONNECT Suffixes (ASCII) 0
S61 0-1 Local Action of Break 1
0= Break processed as set in S63

1= Go into Command mode
S62 2-255 Default Break Length (10 ms) 15
S63 0-3 Link Layer Action On Break 0
0= Break in sequence
1= Send break immediately
2= Discard data, break
3= Ignore break
S64 0 or1 Dial/Answer Sequence Abort 0
0= Abort dial/answer if character went by DTE before
connection is established
1= Ignore character sent by DTE while dialing or
answering a call.
S68 0-255 DCE Flow Control 255
0= No Flow Control
2= Full duplex HW flow control
3= XON/XOFF flow control
4= Both XON/XOFF and RTS/CTS HW flow control
255= Flow control specified by S58
S69 0-2 XON/XOFF Signal Handling 0
0= XON/XOFF character processed
1= Reserved
2= Processed if necessary
S70 Transmit Modulation Rate
S71 Transmit Bits Per Channel
S72 Receive Modulation Rate
S73 Receive Bits Per Channel
S74 Packet Transmission Status
S78 Line Quality
S90 0 or 1 DSRS Behavior 0
0= Disable DTE/DSRS input
1= Enable DTE/DSRS input
S92 0 or 1 Answering Sequence Selection 0
0= PEP tones at the beginning of the search sequence
1= PEP tones at the ending of the search sequence
S93 3-255 V.32 AC Transmit Duration (100 ms) 8
S94 0-3 Modulation Speed Negotiation 1
0= Negotiation disabled; connect as S50
1= Allows a connection
2= Fallback within a modulation scheme
3= Use appropriate fallback
S100 0 or1 Reverse Answer/Originate Mode 0
0= Normal mode
1= Reverse mode
S104 0-4 Automatic Dialing 0
0= Disable automatic dialing
1= DTR automatic dialing
3= T/D switch automatic dialing
4= DTR starts connection attempt
S105 0-2 T/D Switch Enable 1
0= Disable T/D switch
1= Enable T/D switch
2= Enable T/D switch when on-hook
S111 0-255 File Transfer Protocol Support 255
0= No Protocol supported
10= Kermit, no parity
11= Kermit, odd parity
12= Kermit, even parity
13= Kermit, mark parity
14= Kermit, space parity
20= Xmodem/Ymodem
30= UUCP-g protocol

40= ENQ/ACK host
41= ENQ/ACK terminal
42= ENQ/ACK host, not negotiated
43= ENQ/ACK terminal, not negotiated
50= Selects the SDLC accelerator (Set &Q6 when S111=50)
255= Remote modem protocol
S112 0-127 Kermit Mark Character (ASCII) 1
S151 0-46 Synchronous Clock Speed 2
0= 300 bps
1= 1200 bps
2= 2400 bps
3= 4800 bps
4= 9600 bps
5= 19200 bps
35= 7200 bps
43= 12000 bps
46= 14400 bps
S155 0 or 1 NRZ/NRZI Data Encoding 0
0= NRZ encoding is used
1= NRZI encoding is used
S183 8-255 Error Correction Detection Timer 25
S180 0-3 Error Control Request 2
0= Error Control Disabled
1= v.42 without detection phase
2= v.42 with detection
3= MNP
S181 0-2 Originator Error Control Alternatives 1
0= If no error control, direct
1= If no error control, buffer
2= Error Control Required
S183 8-255 Error Control Detection Timer (100 ms) 28
S190 0-8 Data Compression Enable 1
0= Disable in both directions
1= Enable both but single or none
2= Enable both but receive only
3= Enable both but transmit only
4= Enable in both directions
5= Enable in transmit, accept none
6= Enable in transmit only
7= Enable in receive, accept none
8= Enable in receive only
S191 6-7 Telebit LZ Data Compression Negotiation 7
0= Telebit LZ data compression is not negotiated
10= Telebit LZ is negotiated if data compression enabled
S253 0-32 Command Set Selector 10
0= No command set
10= AT sync command set
32= LPDA bit-synchronous dialing
S254 1-255 &F0 Profile Select 255
0= Load profile A
1= Load profile B
255= Load factory defaults
S255 0-255 Default Profile (A-B Switch/A/B); &F doesn't change
0= Load profile A
1= Load profile B
255= Recall profile A/B switch

:::::::::::::::::::::::::

::::::RESULT CODES:::::::

:::::::::::::::::::::::::

Number Message Number Message

0 OK 12 CONNECT 9600
1 CONNECT 13 CONNECT 14400
2 RING 14 CONNECT 19200
3 NO CARRIER 15 CONNECT 38400
4 ERROR 16 CONNECT 57600
5 CONNECT 1200 46 CONNECT 7512
6 NO DAILTONE 47 CONNECT 1275
7 BUSY 48 CONNECT 7200
8 NO ANSWER 49 CONNECT 12000
10 CONNECT 2400 52 RRING
11 CONNECT 4800 53 DIALING
54 NO PROMPTTONE

:::::::::::::::::::::::::::::::

::Telebit WorldBlazer Help DA::
::Steve Shannon © June 19, 92::
:::::::::::::::::::::::::::::::