

Appendix C AT Command Set

CMD	Description	Possible Values
Global Commands: Action		
>D0=	Sets the Date	6 digits (MM/DD/YY)
>D1=	Sets the Time	6 digits (HH:MM:SS)
>V=	Views Switch & Global Parameters	G Views Global Parameters C SPIDs, DNs, and TEIs
>F	Loads Switch Options from Quick Setup factory profile	
>W	Saves ISDN Switch & Global Options to Stored Profile	
>Z	Restores Switch Options from stored profile & restart network	
Global Commands: Switch Configuration		
!C0=	Switch Type	0 AT&T 5ESS 1 Northern Telecom DMS-100 2 National ISDN <default>
!C1=	Switch Software Version	!C0=0: 0 AT&T Point-to-Point 1 AT&T Multi-Point !C0=1: 2 DMS100 PVC IC-0 3 DMS100 PVC IC-1 !C0=2: 4 National ISDN 1 <default>
!C6=	Data SPID	Range: 0-20 characters default (null string)
*1!C6=	Voice SPID 1	Range: 0-20 characters default (null string)
*2!C6=	Voice SPID 2	Range: 0-20 characters default (null string)
!D3=	SAPI-0 data TEI	Range: 0-63, 255 (auto), 127 (disable) default (255)
*1!D3=	SAPI-0 Voice TEI 1	Range: 0-63, 255 (auto), 127 (disable) default (255)

Note: Voice Port parameters are preceded by '*'.

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*2!D3=	SAPI-0 Voice TEI 2	Range: 0-63, 255 (auto), 127 (disable) default (255)
!N1=	Data Directory Number	Range: 0-20 characters (0-9,#,*) default (null string)
1!N1=	Voice Directory Number 1	Range: 0-20 characters (0-9,#,) default (null string)
2!N1=	Voice Directory Number 2	Range: 0-20 characters (0-9,#,) default (null string)
!V3=	Conference Feature Value	Range: 1-63, default (60)
!V4=	Drop Feature Value	Range: 1-63, default (62)
!V5=	Transfer Feature Value	Range: 1-63, default (61)
!V8=	Drop Feature Value	Range: 1-63, default (63)
Global Commands: Softload		
%P1?	Displays Softload Password	
%P1=x	Sets Softload Password to x	Range: 0-8 alphanumeric characters default (null string)
%P1=D	Disables the Softload function. To enable Softload, set the Password again.	D, case sensitive
\$Q	Requests Softload Version Information	
\$Y=x	Initiates Softload with Password x	
Port Commands: Configuration		
En	Local Echo Off	n = 0 Echo Off 1 Echo On <default>
Qn	Status Displays	n = 0 Status On <default> 1 Status Off 2 Status off during answer mode
Vn	Verbose	n = 0 Numeric 1 Verbose <default>
Wn	Carrier/Protocol Result Codes	n = 0 Disables <default> 1 Enables

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CMD	Description	Possible Values
Xn	Connect Messages	n = 0 Enables result codes 0-4 1 Enables 0-5, 10-15, 17-19, 28, 32 2 Enables 0-5, 7, 10-15, 17-19, 28, 32 <default>
S0=	Rings Until Answer	Range: 0-255 default (1)
S1?	Ring Count (Read Only)	Range: 0-255 default (0)
S2=	Escape Character	Range: 0-127 default (43) Range: 128-255 Disabled
S3=	Carriage Return Character	Range: 0-127 default (13)
S4=	Line Feed Character	Range: 0-127 default (10)
S5=	Back Space Character	Range: 0-127 default (8)
S7=	Wait for Connection	Range: 1-255 default (30) Units = seconds
S10=	DCD Drop Time	Range: 1-255 default (14) Units = 1/10 seconds
S12=	Guard Time	Range: 0-255 default (50) Units = 1/50 seconds
S18=	Test Timer	Range: 0-255 default (0) Units = seconds
S25=	DTR Detect Time	Range: 0-255 default (5) Units = 1/100 seconds
S26=	RTS to CTS time	Range: 0-255 default (1) Units = 1/100 seconds
&Cn	Data Carrier Detect	n = 0 Always On <default> 1 Tracks Connection (async only) 2 Always except during S10 disconnect (async only)
&Dn	Data Terminal Ready (DTR)	n = 0 Ignore DTR (async/sync) <default> 1 Recall ACU (async only) 2 Hangup - auto answer disabled while DTR down (async only) 3 Hangup - reset port 9 DTR Dial
&Ln	Persistent DTR Dialing	n = 0 Disables <default> 1 Enables

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CMD	Description	Possible Values
&Mn	Sync mode	n = 0 Async <default> 1 Sync-DTR disc delay (S25) 2 Sync - DTR dialing (auto answer disabled while DTR down)
&Rn	Clear to Send (CTS)	n = 0 CTS follows RTS 1 CTS always on when on-line <default>
&Sn	Data Set Ready (DSR)	0 DSR always on <default> 1 DSR on after protocol installed except test modes
&Yn	Selects Powerup Stored Profile	n = 0 Selects stored Profile 0 upon powerup or DTR reset <default> 1 Selects stored Profile upon powerup or DTR reset
&Zn=	Stores Telephone Number	n = 0-9 0-40 characters (0-9,#,*)
\Qn	Flow Control	n = 0 Disables flow control 1 Enables bidirectional XON/XOFF flow control 2 Enables unidirectional CTS flow control 3 Enables bidirectional RTS/CTS flow control <default> 4 Enables unidirectional XON/XOFF flow control
%A2=	Rate Adaption Protocol	0 None - Clear Channel 2 V.120 <default> 3 BONDING 3&M AIMux (this command includes the async sync mode command &M) 95 PPP
%A4=	Line Channel Speed	0 64kbps 1 56kbps <default>
%A93=	Speech BC Call Answer Option	D Do Not Answer <default> E Answer

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CMD	Description	Possible Values
%A94=	3.1Khz Audio Call Answer Option	D Do Not Answer <default> E Answer
%A95=	Data BC Call Answer Option	D Do Not Answer E Answer <default>
%A96=	Echo Disable Tone	0 Off <default> 1 On
%A97=	Dialing Method	O Overlap E Enbloc <default>
%A98=	Originate Mode Data	D Data <default> A 3.1Khz audio S Speech
*1%A98	Originate Mode Voice 1	A 3.1 kHz Audio S Speech <default>
*2%A98	Originate Mode Voice2	A 3.1 kHz Audio S Speech <default>
@B0=	Rate Multiplier	1 56 or 64 kbps (1 B-channel) <default> 2 112 or 128 kbps (2 B-channels)
@G=	DTE Guard Mode	D Disabled <default> E Enabled
@M2=	Authentication Protocol	N None <default> P PAP C CHAP-MD5 M CHAP-MS
@M20=	CHAP Respond Mode	"password" <default=0> "" Clears the password
@P1=	Command Interpreter	N None A AT <default> VB V.25 bis BISYNC VH V.25 bis HDLC
@P2=	DTE Speed	300, 1200, 2400, 4800, 9600, 19200, 38400, 48000, 56000, 57600, 64000*, 112000, 115200 <default>, 128000* (* disables Autobaud)
@P3=	Parity	N None <default> O Odd E Even M Mark
@P4=	Number of Data Bits	Range: 7-8 default (8)

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CMD	Description	Possible Values
@P6=	Number of Stop Bits	0 One <default> 1 One and One-Half 2 Two
Port Commands: Action		
A	Answer	
D	Dial	S=n Dials Stored Number n 0-9,#,* Digits ; Stay in command mode (P, T, W, and comma are ignored) >P="password" (CHAP only)
H	Hangup	
In	Information	n = 0 Product ID ("960") 1 ROM Checksum 2 Checksum Verification 3 Revision ("4574166-1E C34A PASS") <board #>-<software> <checksum> <PASS FAIL> 4 Numeric Capability String 8 Verbose Capability String 9 Plug-and-Play ID 10 ISDN Link status
O	Returns On-line	
@MENU	Invoke Local menu	
Zn	Reloads Port from stored profile n	n = 0, 1
&Fn	Loads Port from Quick Setup factory profile n	n = 0-3
&Tn	Test Modes	n= 0 End Test 1 Local Loopback 3 Digital Loopback 8 Bilateral Loopback 9 Local Terminal Loopback
&H	Help Command	
&H=	Help for Individual Command	Enters individual commands for which help is desired. AT&H=cmd[,cmd...]
&V	Views Port Parameters	
&V=	Views Parameters	E V.120 Parameters Z Stored Telephone Numbers

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CMD	Description	Possible Values
&Wn	Saves active to stored profile n	n = 0, 1
Port Commands: V.120 (B-channel only)		
%E0=	V.120 Maximum Transmit Frame Size	Range: 1-260 <i>default</i> (256)
%E1=	V.120 Maximum Receive Frame Size	Range: 1-260 <i>default</i> (260)
%E2=	V.120 Window Size	Range: 1-127 <i>default</i> (8)
%E3=	V.120 T200 Transmission timer	Range: 1-255 <i>default</i> (5)
Port Commands: Caller ID		
@N0=	Caller ID Logging	0 Disables < <i>default</i> > 1 Enables
@N1=	Caller ID Auto Delivery	0 Disables < <i>default</i> > 1 Enables
@Ln	Caller ID Number Clearing and Retrieval	0 Clears the list of numbers 1 Retrieves most recent number 2 Retrieves the entire list
@IS=	Caller ID Screening & Blocking	D Disables Security < <i>default</i> > S Enables Screening B Enables Blocking
@IA=	Adds the given ID to the Security ID list.	
@ID=	Deletes the given ID from the Security ID list.	
@IC	Deletes all IDs.	
@IL	Lists Caller ID Security status for the port; list all stored IDs	
@IP	Copies the Security status and Security list from the current port to all data ports	
@IV	Copies the Security status and Security list from the current port to all analog ports	

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