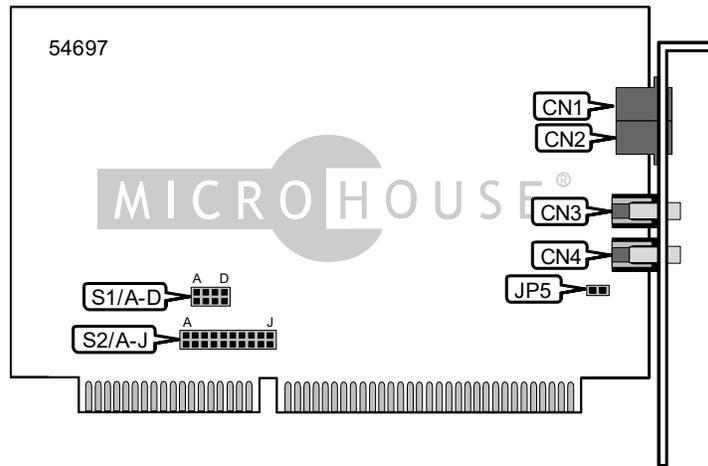


MAXTECH CORPORATION XPV 336IC (SF-1133HV/C3)

Card Type	Modem/Fax card
Chip Set	Unidentified
I/O Options	Line in(RJ-11), line out(RJ-11), microphone jack, speaker jack
Maximum Modem Rate	33.6Kbps
Maximum Fax Rate	14.4Kbps
Data Modulation Protocol	Bell 103/212A
	ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis, V34, V34+, V.FC
Fax Modulation Protocol	ITU-T V.17, V.27ter, V.29
Error Correction/Compression	MNP5, V.42, V.42bis
Fax Class	Class I
Data Bus	16-bit ISA



CONNECTIONS			
Function	Label	Function	Label
RJ-11 line	CN1	Microphone	CN3
RJ-11 line	CN2	Speaker	CN4

USER CONFIGURABLE SETTINGS		
Setting	Label	Position
í Stereo speaker configuration enabled	JP5	Closed
í Mono speaker configuration enabled	JP5	Open

SERIAL PORT ADDRESS				
Setting	S1/A	S1/B	S1/C	S1/D
COM1 (3F8h)	Open	Open	Closed	Closed
COM2 (2F8h)	Closed	Open	Open	Closed
COM3 (3E8h)	Open	Closed	Closed	Open
COM4 (2E8h)	Closed	Closed	Open	Open
í Plug & Play enabled	Open	Open	Open	Open

Continued on next page . . .

MAXTECH CORPORATION
XPV 336IC (SF-1133HV/C3)

. . . continued from previous page

INTERRUPT							
Setting	S2/A	S2/B	S2/C	S2/D	S2/E	S2/F	S2/G
IRQ3	Closed	Open	Open	Open	Open	Open	Open
IRQ4	Open	Closed	Open	Open	Open	Open	Open
IRQ5	Open	Open	Closed	Open	Open	Open	Open
IRQ7	Open	Open	Open	Closed	Open	Open	Open
IRQ10	Open	Open	Open	Open	Closed	Open	Open
IRQ11	Open	Open	Open	Open	Open	Closed	Open
IRQ12	Open	Open	Open	Open	Open	Open	Closed
í Plug & Play enabled	Closed						

SUPPORTED COMMAND SET
Basic AT Commands
AT, +++, A/
A, E, H, M, O, P, Q, T, V, X, Y, Z
&C, &F, &G, &W, &Y, &Z
Extended AT Commands
\A, \B, \C, \G, \J, \K, \O, \U, \X, \Y, \Z
%A, %G
-J
"H
S Registers
S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S14, S16, S18, S21, S22, S23, S25, S27, S30, S31, S33, S37
Special Commands
+MS
Note: See MHI Help File for full command documentation.

PROPRIETARY AT COMMAND SET

AUTO-MODE DETECTION	
Type:	Configuration
Format:	AT [cmds] Nn [cmds]
Description:	Selects various options for the automatic detection and negotiation of protocols during the handshake process if the modem is communicating with a remote modem of dissimilar speed.
Command	Function
N0	When originating or answering; handshake only at DTE to modem rate
í N1	When originating or answering; handshake at DTE to modem rate. Modem can shift to a lower speed if necessary

Continued on next page . . .

MAXTECH CORPORATION

XPV 336IC (SF-1133HV/C3)

. . . continued from previous page

AUXILIARY RELAY	
Type:	Configuration
Format:	AT [cmds] &Jn [cmds]
Description:	Enables/disables auxiliary relay
Command	Jack Type
&J0	Auxiliary relay disabled
&J1	Auxiliary relay enabled when modem is off-hook

COMMUNICATION PROTOCOLS	
Type:	Configuration
Format:	AT [cmds] Bn [cmds]
Description:	Selects the communication protocol for data calls
Note:	The B command allows the simultaneous selection of more than one suffix, enabling multiple protocols.
Command	Protocol
B0	CCITT mode
B1	Bell 212A at 300 or 1200bps
B2	V.23 at 1200bps transmit, 75bps receive
B3	V.23 at 75bps transmit, 1200bps receive

COMMUNICATIONS MODE	
Type:	Configuration
Format:	AT [cmds] &Mn [cmds]
Description:	Selects communications mode
Command	Mode
&M0	Asynchronous mode

COMMUNICATIONS MODE	
Type:	Configuration
Format:	AT [cmds] &Qn [cmds]
Description:	Selects communications mode options
Command	Mode
&Q0	Asynchronous mode, serial port speed follows connect speed.

CONFIGURATION PROFILES	
Type:	Immediate
Format:	AT [cmds] &Vn [cmds]
Description:	Displays active and stored configuration profiles
Command	Function
&V0	Displays active and stored configuration profile 0
&V1	Displays active and stored configuration profile 1

Continued on next page . . .

MAXTECH CORPORATION

XPV 336IC (SF-1133HV/C3)

. . . continued from previous page

DATA SET READY (DSR)	
Type:	Configuration
Format:	AT [cmds] &Sn [cmds]
Description:	Selects DSR options
Command	Function
i&S0	DSR forced high
&S1	DSR high only while modem is handshaking or connected

DATA TERMINAL READY (DTR)	
Type:	Configuration
Format:	AT [cmds] &Dn [cmds]
Description:	Selects modem response to DTR
Command	Function
i&D0	DTR override
&D1	DTR toggle causes online command mode
&D2	Normal DTR operations
&D3	Resets on receipt of DTR

DIAL	
Type:	Immediate
Format:	AT [cmds] D<#> [cmds]
Description:	Dials telephone number according to any modifiers included in the string
Note:	Any combination of modifiers can be used to produce the desired dial functions in sequence.
Command	Function
DP	Pulse dialing enabled
DR	Answer mode enabled; originate mode disabled following handshake initiation.
DS=n	Dial stored telephone number <i>n</i>
DT	Tone dialing enabled/Pulse dialing disabled
DW	Dialing resumed following dial tone detection
D,	Dialing paused for amount of time specified in S8 register
D!	Flash function initiated. Modem commanded to go off-hook for specified time before returning on-hook.
D@	Wait for Quiet Answer function enabled. Modem waits until a "quiet answer," a ring-back signal followed by silence up to the time specified in S7, is received prior to executing the rest of the dial string.
D;	Modem returned to idle state after dialing. The semicolon can only be placed at the end of the dial command.

Continued on next page . . .

MAXTECH CORPORATION

XPV 336IC (SF-1133HV/C3)

. . . continued from previous page

EXTENDED RESULT CODES	
Type:	Configuration
Format:	AT [cmds] Wn [cmds]
Description:	Enables selection of additional result codes.
Command	Function
i W0	Modem reports DTE response codes
W1	Modem reports DTE response codes
W2	Modem reports DCE response codes
W3	Modem reports DTE speed, modulation mode, error control, data compression, DCE speed
W4	Modem reports DTE protocol, data compression, and DTE speed

FLOW CONTROL	
Type:	Configuration
Format:	AT [cmds] &Kn [cmds]
Description:	Enables flow control options
Command	Function
&K0	Flow control disabled
&K3	RTS/CTS flow control enabled
&K4	XON/XOFF flow control enabled

PULSE DIALING RATIO	
Type:	Configuration
Format:	AT [cmds] &Pn [cmds]
Description:	Selects pulse dial make/break ratio
Command	Function
i&P0	39/61ms at 10pps (North America)
&P1	33/67ms at 10pps (Europe)

REPORT INFORMATION	
Type:	Immediate
Format:	AT [cmds] In [cmds]
Description:	Displays information requested
Command	Function
I0	Reports four digit product code
I1	Reports ROM checksum
I2	Reports internal memory test
I3	Reports device ID
I4	Reports internal ID
I5	Reports modem chip hardware configuration
I6	Reports country code
I7	Reports manufacturer firmware version
I8	Reports modem firmware version
I10	Reports modem board configuration

Continued on next page . . .

MAXTECH CORPORATION
XPV 336IC (SF-1133HV/C3)

. . . continued from previous page

SPEAKER VOLUME	
Type:	Configuration
Format:	AT [cmds] Ln [cmds]
Description:	Controls speaker volume
Command	Function
L0	Low volume setting
L1	Low volume setting
í L2	Medium volume setting
L3	Highest volume setting

TEST MODES	
Type:	Immediate
Format:	AT [cmds] &Tn
Description:	Selects test options
Command	Function
&T0	End current test
&T1	Begin local analog loopback test
&T4	Grant remote digital loopback request
&T5	Deny remote digital loopback request
&T6	Request remote digital loopback
&T7	Request remote digital loopback and self-test
&T8	Begin local analog loopback and self-test

TRELLIS CODING	
Type:	Configuration
Format:	AT [cmds] &Un [cmds]
Description:	Enables/disables trellis coding
Command	Function
í&U0	V.32 trellis coding enabled
&U1	V.32 trellis coding disabled

EXTENDED AT COMMAND SET

AUTO-RETRAIN - AUTO-FALLBACK/FALL-FORWARD	
Type:	Configuration
Format:	AT [cmds] %En [cmds]
Description:	Controls auto-retrain mode and fallback/fall-forward
Command	Function
%E0	Auto-retrain disabled
%E1	Auto-retrain enabled

Continued on next page . . .

MAXTECH CORPORATION
XPV 336IC (SF-1133HV/C3)

. . . continued from previous page

CALLING TONE	
Type:	Configuration
Format:	AT [cmds] -Cn [cmds]
Description:	Controls whether the DTE will allow the modem to send a 1300Hz calling tone when originating
Command	Function
-C0	Calling tone disabled
-C1	1300hz calling tone enabled
-C2	V.8 and 1300hz calling tone enabled

COMPRESSION	
Type:	Configuration
Format:	AT [cmds] %Cn [cmds]
Description:	Selects data compression
Command	Function
%C0	Data compression disabled
%C1	MNP5 enabled

CONNECT MODE	
Type:	Configuration
Format:	AT [cmds] \Nn [cmds]
Description:	Controls the type of connection the modem will operate in
Command	Function
\N0	Normal mode enabled
\N1	Normal mode enabled
\N2	MNP mode enabled
\N3	Auto-reliable mode enabled
\N4	V.42 reliable mode enabled

FLOW CONTROL TYPE	
Type:	Configuration
Format:	AT [cmds] \Qn [cmds]
Description:	Sets type of flow control used by modem
Command	Function
\Q0	Flow control disabled
\Q1	Bi-directional XON/XOFF flow control enabled
\Q2	CTS flow control by DCE enabled
\Q3	Bi-directional RTS/CTS flow control enabled

Continued on next page . . .

MAXTECH CORPORATION

XPV 336IC (SF-1133HV/C3)

. . . continued from previous page

INACTIVITY TIMER	
Type:	Configuration
Format:	AT [cmds] \Tn [cmds]
Range:	0-90
Unit:	1 second
Description:	Sets the length of time that the modem does not receive information before it disconnects.

V.42bis - MAXIMUM STRING LENGTH	
Type:	Immediate
Format:	AT [cmds] "On [cmds]
Range:	6-250
Unit:	Characters
Description:	Selects string size for V.42bis compression. Default is 32.

VIOCE AT COMMAND SET

BUFFER THRESHOLD SELECTION	
Format	AT [cmds] +VBT= <i>n</i> [cmds]
Description:	Sets buffer threshold

CALLER ID SELECTION	
Format	AT [cmds] +VCID= <i>n</i> [cmds]
Description:	Selects caller ID

VOICE COMMAND MODE SILENCE DETECTION	
Format	AT [cmds] #VCSD= <i>n</i> [cmds]
Description:	Detects voice command mode silence

DISTINCTIVE RING SELECTION	
Format	AT [cmds] +VDR= <i>n</i> [cmds]
Description:	Selects distinctive ring

EVENT REPORTING AND MASKING	
Format	AT [cmds] +VEM= <i>n</i> [cmds]
Description:	Reports and masks events

SPEAKERPHONE MICROPHONE GAIN	
Format	AT [cmds] +VGM= <i>n</i> [cmds]
Description:	Sets speakerphone microphone gain

RECEIVE GAIN	
Format	AT [cmds] +VGR= <i>n</i> [cmds]
Description:	Selects receive gain

Continued on next page . . .

MAXTECH CORPORATION

XPV 336IC (SF-1133HV/C3)

. . . continued from previous page

SPEAKERPHONE SPEAKER GAIN	
Format	AT [cmds] +VGS= <i>n</i> [cmds]
Description:	Sets speakerphone speaker gain

VOLUME SELECTION	
Format	AT [cmds] +VGT= <i>n</i> [cmds]
Description:	Selects volume

INITIALIZE PARAMETER	
Format	AT [cmds] +VIP [cmds]
Description:	Sets voice initialization parameter

INACTIVITY TIMER	
Format	AT [cmds] +VIT= <i>n</i> [cmds]
Description:	Sets DTE/DCE inactivity timer

RELAY/SPEAKER	
Format	AT [cmds] +VLS= <i>n</i> [cmds]
Description:	Controls relay/speaker settings

AUTOMATIC HANG-UP	
Format	AT [cmds] +VNH= <i>n</i> [cmds]
Description:	Controls automatic hang-up option

RINGBACK DROPPED	
Format	AT [cmds] +VRA= <i>n</i> [cmds]
Description:	Determines amount of time before ringback is discontinued

RINGBACK NOT RECIEVED	
Format	AT [cmds] +VRN= <i>n</i> [cmds]
Description:	Sets time for ringback to not appear

RECORD MODE	
Format	AT [cmds] +VRX= <i>n</i> [cmds]
Description:	Determines record mode

SILENCE DETECTION	
Format	AT [cmds] +VSD= <i>n</i> [cmds]
Description:	Detects quiet and silence

COMPRESSION METHOD	
Format	AT [cmds] +VSM= <i>n</i> [cmds]
Description:	Selects compression method

Continued on next page . . .

MAXTECH CORPORATION

XPV 336IC (SF-1133HV/C3)

. . . continued from previous page

SPEAKERPHONE ENABLE	
Format	AT [cmds] +VSP= <i>n</i> [cmds]
Description:	Controls on/off of speakerphone

SPEAKERPHONE TYPE	
Format	AT [cmds] #VSPS= <i>n</i> [cmds]
Description:	Selects speakerphone type

BEEP TONE DURATION TIMER	
Format	AT [cmds] +VTD= <i>n</i> [cmds]
Description:	Sets the beep tone duration timer

DTMF AND TONE GENERATION	
Format	AT [cmds] +VTS= <i>n</i> [cmds]
Description:	Controls DTMF and tone generation

PLAY MODE	
Format	AT [cmds] +VTX= <i>n</i> [cmds]
Description:	Sets play mode