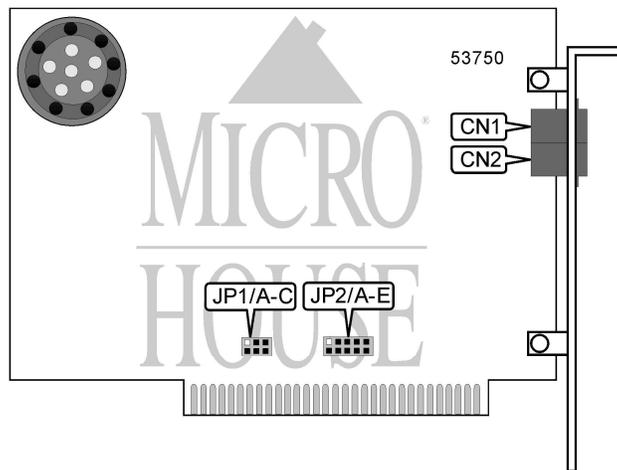


# MAXTECH CORPORATION

## XPM3361

<b>Card Type</b>	Modem (asynchronous)
<b>Chipset</b>	Unidentified
<b>I/O Options</b>	Voice, speakerphone, microphone in, speaker out
<b>Maximum Data Rate</b>	33.6Kbps
<b>Maximum Fax Rate</b>	14.4Kbps
<b>Data Modulation</b>	Bell 103A/212A ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis, V.34
<b>Fax Modulation</b>	ITU-T V.17, V.21CH2, V.27ter, V.29
<b>Error Correction/Compression</b>	MNP5, V.42, V.42bis
<b>Fax Class</b>	Class I & II
<b>Data Bus</b>	8-bit ISA
<b>Card Size</b>	Full height, one-third length



CONNECTIONS			
Function	Label	Function	Label
Telephone line out	CN1	Telephone line in	CN2

USER CONFIGURABLE SETTINGS			
Setting	Label	Position	
Plug-N-Play disabled	JP1/C	Closed	
Plug-N-Play enabled	JP1/C	Open	
Note: When JP1/C is set for Plug-N-Play mode, all other applicable settings must also be set for Plug-N-Play mode.			

SERIAL PORT ADDRESS SELECTION			
Setting	JP1/A	JP1/B	
3F8h (COM1:)	Closed	Closed	
2E8h (COM2:)	Open	Closed	
3F8h (COM3:)	Closed	Open	
2E8h (COM4:)	Open	Open	
Plug-N-Play	Open	Open	

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# MAXTECH CORPORATION

## XPM336I

... continued from previous page

INTERRUPT SELECTION					
Setting	JP2/A	JP2/B	JP2/C	JP2/D	JP2/E
2	Closed	Open	Open	Open	Open
3	Open	Closed	Open	Open	Open
4	Open	Open	Closed	Open	Open
5	Open	Open	Open	Closed	Open
7	Open	Open	Open	Open	Closed
Plug-N-Play	Open	Open	Open	Open	Open

SUPPORTED STANDARD COMMANDS
<b>Basic AT Commands</b>
+++ , 'comma', A/
A, B, E, F, H, L, M, O, P, T, V, X, Z
&C, &D, &F, &G, &P, &R, &S, &T, &W
<b>S-Registers</b>
S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S18, S25
Note: See MHI help file for complete information.

UNIDENTIFIED COMMANDS	
Command	Default
S13	0
S15	0
S16	0
S27	0
S32	0
S33	0
S34	0

### Proprietary AT Command Set

BREAK LENGTH	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S21= <i>n</i> [cmds]
<b>Default:</b>	10
<b>Range:</b>	0 - 255
<b>Unit:</b>	10 ms
<b>Description:</b>	Sets the length of the breaks sent from modem to the DTE when in error correction mode .

Continued on next page. . .

# MAXTECH CORPORATION

## XPM336I

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BREAK TYPE	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Yn [cmds]
<b>Description:</b>	Configures action of break signal.
Command	Function
&Y0	Break empties buffer.
i &Y1	Break empties buffer and is sent immediately.
&Y2	Break does not empty buffer and is sent immediately.

COMPRESSION MODE	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Kn [cmds]
<b>Description:</b>	Selects the type of data compression that will be used.
Command	Function
&K0	Data compression disabled.
i &K1	Auto-detect compression mode.
&K2	Data compression enabled.
&K3	MNP5 data compression only enabled.

CONNECTION SPEED LOWER LIMIT	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Nn [cmds]
<b>Description:</b>	Sets slowest allowed connection speed if &N is set to 1 or higher.
Command	Function
&U0	No minimum connect speed.
&U1	Set minimum connect speed to 300bps.
&U2	Set minimum connect speed to 1200bps.
&U3	Set minimum connect speed to 2400bps.
&U4	Set minimum connect speed to 4800bps.
&U5	Set minimum connect speed to 7200bps.
&U6	Set minimum connect speed to 9600bps.
&U7	Set minimum connect speed to 12Kbps.
&U8	Set minimum connect speed to 14.4Kbps.
&U9	Set minimum connect speed to 16.8Kbps.
&U10	Set minimum connect speed to 19.2Kbps.
&U11	Set minimum connect speed to 21.6Kbps.
&U12	Set minimum connect speed to 24Kbps.
&U13	Set minimum connect speed to 26.4Kbps.
&U14	Set minimum connect speed to 28.8Kbps.
&U15	Set minimum connect speed to 31.2Kbps.
&U16	Set minimum connect speed to 33.6Kbps.
&U17	Set minimum connect speed to 33.3Kbps.
&U18	Set minimum connect speed to 37.3Kbps.
&U19	Set minimum connect speed to 41.3Kbps.

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MAXTECH CORPORATION  
XPM336I

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CONNECTION SPEED LOWER LIMIT (CON'T)	
Command	Function
&U20	Set minimum connect speed to 42.6Kbps.
&U21	Set minimum connect speed to 44Kbps.
&U22	Set minimum connect speed to 45.3Kbps.
&U23	Set minimum connect speed to 46.6Kbps.
&U24	Set minimum connect speed to 48Kbps.
&U25	Set minimum connect speed to 49.3Kbps.
&U26	Set minimum connect speed to 50.6Kbps.
&U27	Set minimum connect speed to 52Kbps.
&U28	Set minimum connect speed to 53.3Kbps.
&U29	Set minimum connect speed to 54.6Kbps.
&U30	Set minimum connect speed to 56Kbps.
&U31	Set minimum connect speed to 57.3Kbps.

CONNECTION SPEED UPPER LIMIT	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Nn [cmds]
<b>Description:</b>	Sets required connection speed if &U is set to 0; otherwise, sets fastest allowed connection speed.
Command	Function
&N0	No maximum connect speed.
&N1	Set maximum connect speed to 300bps.
&N2	Set maximum connect speed to 1200bps.
&N3	Set maximum connect speed to 2400bps.
&N4	Set maximum connect speed to 4800bps.
&N5	Set maximum connect speed to 7200bps.
&N6	Set maximum connect speed to 9600bps.
&N7	Set maximum connect speed to 12Kbps.
&N8	Set maximum connect speed to 14.4Kbps.
&N9	Set maximum connect speed to 16.8Kbps.
&N10	Set maximum connect speed to 19.2Kbps.
&N11	Set maximum connect speed to 21.6Kbps.
&N12	Set maximum connect speed to 24Kbps.
&N13	Set maximum connect speed to 26.4Kbps.
&N14	Set maximum connect speed to 28.8Kbps.
&N15	Set maximum connect speed to 31.2Kbps.
&N16	Set maximum connect speed to 33.6Kbps.
&N17	Set maximum connect speed to 33.3Kbps.
&N18	Set maximum connect speed to 37.3Kbps.

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MAXTECH CORPORATION  
XPM336I

. . . continued from previous page

CONNECTION SPEED UPPER LIMIT (CON'T)	
Command	Function
&N19	Set maximum connect speed to 41.3Kbps.
&N20	Set maximum connect speed to 42.6Kbps.
&N21	Set maximum connect speed to 44Kbps.
&N22	Set maximum connect speed to 45.3Kbps.
&N23	Set maximum connect speed to 46.6Kbps.
&N24	Set maximum connect speed to 48Kbps.
&N25	Set maximum connect speed to 49.3Kbps.
&N26	Set maximum connect speed to 50.6Kbps.
&N27	Set maximum connect speed to 52Kbps.
&N28	Set maximum connect speed to 53.3Kbps.
&N29	Set maximum connect speed to 54.6Kbps.
&N30	Set maximum connect speed to 56Kbps.
&N31	Set maximum connect speed to 57.3Kbps.

DIAL	
<b>Type:</b>	Immediate
<b>Format:</b>	AT [cmds] D<#>;[cmds]
<b>Description:</b>	Dials the telephone number indicated according to any modifiers included in the string.
Command	Function
DL	Re-dial last number.
DP	Pulse dialing enabled.
DR	Answer mode enabled; originate mode disabled following handshake initiation.
DS <i>n</i>	Dial stored telephone number <i>n</i> .
DT	Tone dialing enabled.
DW	Dialing resumed following dial tone detection.
D,	Dialing paused for amount of time specified in S8 register.
D/	Dialing paused for 1/8 second.
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\$	Wait for prompt tone detection function enabled. Waits for prompt tone for amount of time specified by the S7 command.
D;	Modem returned to idle state after dialing. The semicolon can only be placed at the end of the dial command.

DISPLAY HELP SCREEN - AMPERSAND	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &\$ [cmds]
<b>Description:</b>	Displays the help screen on the AT& commands.

Continued on next page. . .

# MAXTECH CORPORATION

## XPM3361

. . . continued from previous page

DISPLAY HELP SCREEN - BASIC	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \$ [cmds]
<b>Description:</b>	Displays the basic help screen.

DISPLAY HELP SCREEN - DIAL	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] D\$ [cmds]
<b>Description:</b>	Displays the help screen on the dialing commands.

DISPLAY HELP SCREEN - REGISTERS	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] S\$ [cmds]
<b>Description:</b>	Displays the help screen for S registers.

DISPLAY INFORMATION	
<b>Type:</b>	Immediate
<b>Format:</b>	AT [cmds] In [cmds]
<b>Description:</b>	Displays modem properties.
<b>Command</b>	<b>Function</b>
I0	Displays product identification code.
I1	Tests and displays ROM checksum result.
I2	Tests and displays RAM checksum result.
I3	Displays product identification.
I4	Displays current command settings.
I5	Displays current NVRAM settings.
I6	Displays current connection's statistics.
I7	Displays product configuration.

ERROR CORRECTION MODE	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Mn [cmds]
<b>Description:</b>	Selects active error correction protocols.
<b>Command</b>	<b>Function</b>
&M0	Normal mode only.
í &M4	Auto-detect mode.
&M5	Error correction mode only.

Continued on next page. . .

MAXTECH CORPORATION  
XPM336I

. . . continued from previous page

EXTENDED RESULT CODES	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &An [cmds]
<b>Description:</b>	Selects extended result codes.
<b>Command</b>	<b>Function</b>
&A0	Extended result codes disabled.
&A1	Error correction result codes enabled.
&A2	V.32 result code enabled.
i &A3	Error correction and compression result codes enabled.

FLOW CONTROL CHARACTER - XOFF	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S23=n [cmds]
<b>Default:</b>	19
<b>Range:</b>	0 - 127
<b>Unit:</b>	1 ASCII character
<b>Description:</b>	Sets the character used to represent XOFF.

FLOW CONTROL CHARACTER - XON	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S22=n [cmds]
<b>Default:</b>	17
<b>Range:</b>	0 - 127
<b>Unit:</b>	1 ASCII character
<b>Description:</b>	Sets the character used to represent XON.

FLOW CONTROL - MODEM-TO-MODEM	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &In [cmds]
<b>Description:</b>	Selects the type of modem-to-modem flow control used.
<b>Command</b>	<b>Function</b>
&I0	Software flow control disabled.
&I1	XON/XOFF pass-through enabled.
&I2	XON/XOFF pass-through disabled.
&I3	Hewlett-Packard ENQ/ACK host mode enabled.
&I4	Hewlett-Packard ENQ/ACK terminal mode enabled.
&I5	XON/XOFF pass-through enabled in normal mode and disabled in error-correcting mode.

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MAXTECH CORPORATION  
XPM3361

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LOCK SERIAL PORT	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] &Bn [cmds]
<b>Description:</b>	Sets operation of serial port speed.
<b>Command</b>	<b>Function</b>
&B0	Serial speed follows connect speed.
&B1	Serial speed locked.
í &B2	Serial speed locked in error correction mode only.

RESULT CODES	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] Qn [cmds]
<b>Description:</b>	Enables modem to send result codes to the DTE.
<b>Command</b>	<b>Function</b>
í Q0	Result codes enabled.
Q1	Result codes disabled.
Q2	Result codes enabled in originate mode only.

V.21 ANSWER MODE FALLBACK TIMER	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S29=n [cmds]
<b>Default:</b>	20
<b>Range:</b>	Unidentified
<b>Unit:</b>	.1 second
<b>Description:</b>	The function of this register is unidentified.

V.32 HANDSHAKE TIME	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S28=n [cmds]
<b>Default:</b>	8
<b>Range:</b>	0 - 255
<b>Unit:</b>	.1 second
<b>Description:</b>	Sets length of V.32 handshaking phase.