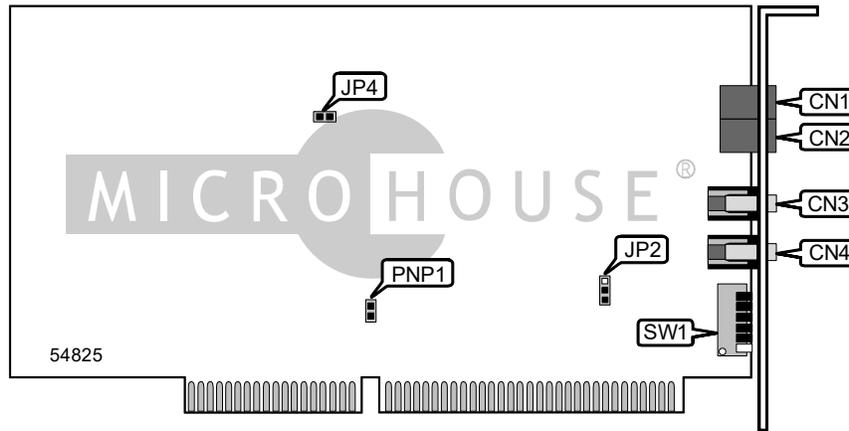


MAXTECH CORPORATION XPVS288R9 (SF-1128HV/R9)

Card Type	Modem, Fax
Chip Set	Unidentified
I/O Options	Line in, line out, microphone in, speaker out
Maximum Modem Rate	28.8Kbps
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, V.34
Fax Modulation Protocol	ITU-T V.17, V.27ter, V.29
Error Correction/Compression	MNP5, V.42, V.42bis
Fax Class	Class I & II
Data Bus	16-bit ISA
Card Size	Half-length, full-height card



CONNECTIONS			
Function	Label	Function	Label
Line out	CN1	Microphone in	CN3
Line in	CN2	Speaker out	CN4

USER CONFIGURABLE SETTINGS		
Setting	Label	Position
Microphone set for dynamic	JP2	Pins 1 & 2 closed
Microphone set for condenser	JP2	Pins 2 & 3 closed
Speaker set for stereo	JP4	Closed
Speaker set for mono	JP4	Open
í Plug and Play enabled	PNP1	Closed
Plug and Play disabled	PNP1	Open

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SERIAL PORT ADDRESS			
Setting	PNP1	SW1/1	SW1/2
COM1 (3F8h)	Open	On	On
COM2 (2F8h)	Open	Off	On
COM3 (3E8h)	Open	On	Off
COM4 (2E8h)	Open	Off	Off
í PnP	Closed	Off	Off

IRQ SETTINGS					
Setting	PNP1	SW1/3	SW1/4	SW1/5	SW1/6
2/9	Open	On	Off	Off	Off
3	Open	Off	On	Off	Off
4	Open	Off	Off	On	Off
5	Open	Off	Off	Off	On
í PnP	Closed	Off	Off	Off	Off

SUPPORTED COMMAND SET
Basic AT Commands
AT, '+++', A/
A, E, H, M, O, P, T, V, X, Y, Z
&C, &G, &L, &T, &V, &W, &Y, &Z
Extended AT Commands
\A, \B, \C, \E, \G, \J, \K, \O, \Q, \U, \X, \Y, \Z
%A
S Registers
S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S14, S16, S18, S21, S22, S23, S25, S26, S27
Special Commands
#BDR, #CLS, #MDL?, #MFR?, #REV?, #SPK=a,b,c, #VBQ?, #VBS, #VBT, #VCI?, #VLS, #VRA, #VRN, #VRX, #VSD, #VSK, #VSP, #VSR, #VSS, #VTD, #VTS, #VTX
Note: See MHI Help File for full command documentation.

Proprietary AT Command Set

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

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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	Enables CCITT mode
B1	Enables Bell mode
B2	Enables Autoscan mode
B3	Enables CCITT V.23 mode only
B4	Enables 300 bps connection only
B5	Enables 1200 bps connection only
B6	Enables 2400 bps connection only
B7	Enables 4800 bps connection only
B8	Enables 9600 bps connection only
B9	Enables 14400 bps connection only
B10	Enables 16800 bps connection only
B11	Enables 19200 bps connection only
B12	Enables 21600 bps connection only
B13	Enables 24000 bps connection only
B14	Enables 26400 bps connection only
B15	Enables 28800 bps connection only

DATA TERMINAL READY (DTR)	
Type:	Configuration
Format:	AT [cmds] &Dn [cmds]
Description:	Selects modem response to DTR
Command	Function
i Command 0	Modem does not respond to DTR
Command 1	Modem goes to command mode after DTR goes is off
Command 2	Modem goes to command mode and disconnects (hangs up) after DTR goes off; Auto-Answer is disabled.
Command 3	Modem is initialized after DTR goes off

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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.
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.

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

FACTORY DEFAULT	
Type:	Configuration
Format:	AT [cmds] &Fn [cmds]
Description:	Recalls factory default configuration and/or with software flow control enabled
Command	Function
í &F0	Recalls factory default configuration
&F1	Recalls factory default configuration with software flow control enabled
&F2	Recalls factory default configuration with hardware flow control enabled
&F3	Recalls factory default configuration with software flow control enabled and ignores the DTR signal
&F4	Recalls factory default configuration with hardware flow control enabled and ignores the DTR signal
&F5	Set modem to Direct mode

FALL FORWARD/FALL BACK	
Type:	Configuration
Format:	AT [cmds] &En [cmds]
Description:	Enables/Disables fall forward/fall back
Command	Function
í &E0	Disables automatic fall forward/fall back
&E1	Enables automatic fall forward/fallback

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HELP	
Type:	Configuration
Format:	AT [cmds] &H [cmds]
Description:	Displays the modem help screen

ORIGINATE MODE	
Type:	Configuration
Format:	AT [cmds] &On [cmds]
Description:	Enables/Disables originate-only mode
Command	Mode
í &O0	Originate-only mode disabled
&O1	Originate-only mode enabled

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

REPORT INFORMATION	
Type:	Immediate
Format:	AT [cmds] ln [cmds]
Description:	Displays information requested and configures Plug and Play serial number
Command	Function
I0	Reports product ID
I1	Reports ROM checksum
I2	Tests and reports internal memory
I3	Reports V.42bis ID
I4	Reports internal ID
I99=n	Configures Plug and Play serial number to n (n = 0-225)

RESULT CODES	
Type:	Configuration
Format:	AT [cmds] Qn [cmds]
Description:	Enables modem to send result codes to the DTE
Command	Function
í Q0	Result code sending enabled
Q1	Result code sending disabled
Q2	Result code sending disabled only when answer mode is enabled

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

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
i %E1	Auto-retrain enabled

AUTO-DETECT SETTINGS	
Type:	Configuration
Format:	AT [cmds] %Mn [cmds]
Description:	Controls V.34 and V.FC while in auto-detect mode
Command	Function
i %M0	Sets V.34 and V.FC to auto-detect mode
%M1	Sets only V.34 to auto-detect
%M2	Sets only V.FC to auto-detect

CLEAR-DOWN SIGNAL	
Type:	Configuration
Format:	AT [cmds] %Dn [cmds]
Description:	Enables/Disables clear-down signal
Command	Function
%D0	Clear-down signal disabled
i %D1	Clear-down signal enabled

COMPRESSION/CORRECTION	
Type:	Configuration
Format:	AT [cmds] %Cn [cmds]
Description:	Selects data compression and correction
Command	Function
%C0	Data compression and correction disabled
%C1	MNP5 and V.42bis; or data compression and correction enabled

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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	Direct mode enabled
\N2	MNP reliable mode enabled
\N3	Auto-reliable mode or MNP auto-reliable mode enabled
\N4	V.42 reliable mode enabled
\N5	V.42 auto-reliable mode or MNP auto-reliable mode enabled
\N6	V.42/MNP/Normal data link enabled

DCE	
Type:	Configuration
Format:	AT [cmds] \Vn [cmds]
Description:	Reports DCE speed and extended responses
Command	Function
i \V0	Reports DCE speed without sending extended responses
\V1	Reports DCE speed and send sends extended responses
\V2	Reports DTE speed without sending extended responses
\V3	Reports DTE speed and send sends extended responses

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

LINE SIGNAL LEVEL	
Type:	Immediate
Format:	AT [cmds] %Ln [cmds]
Default:	11
Range:	0-15
Unit:	dBm
Description:	Returns a value which indicates the received line signal level

PASSWORD	
Type:	Configuration
Format:	AT [cmds] \P=x [cmds]
Description:	Stores password x (x=ASCII characters 1 through 127 excluding "?" maximum 7 characters) stored into non-volatile RAM

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POWER-ON AUTO-CONNECT	
Type:	Configuration
Format:	AT [cmds] %Pn [cmds]
Description:	Enables/Disables power-on auto-connect
Command	Function
í %P0	Power-on auto-connect disabled
%P1	Power-on auto-connect enabled

SECURITY	
Type:	Configuration
Format:	AT [cmds] %Sn [cmds]
Description:	Enables/Disables call-back security and checks password
Command	Function
í %S0	Call-back security disabled
%S1	Password check enabled
%S2	Call-back security and password check enabled

S(status) -Registers

BIT-MAPPED REGISTER S28	
Type:	Register
Format	AT [cmds] S28=n [cmds]
Unit:	Bit-mapped
Description:	Configures Power-on auto-connect, security call-back, auto-retrain, and Bell/CCITT mode settings