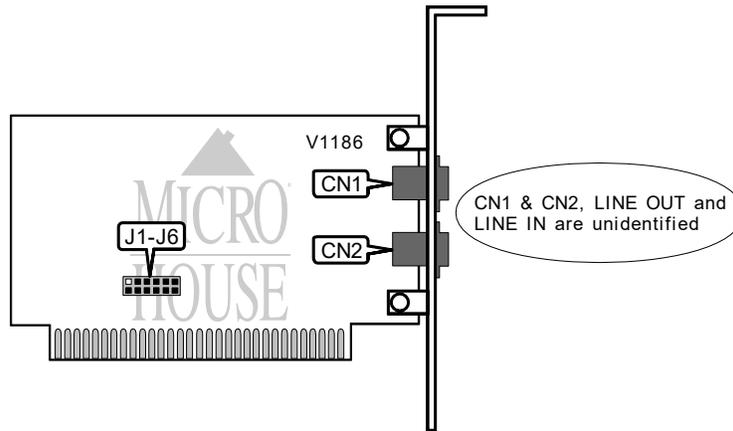# MAXTECH CORPORATION
XVM144I (CL-MD1414ECT)

Card Type   Fax, Modem (asynchronous), Voice
Chip Set   Cirrus Logic
I/O Options   Speakerphone, Voice-mail
Maximum Data Rate 14.4Kbps
Maximum Fax Rate 14.4Kbps
Data Bus   8-bit ISA
Fax Class   Class I
Data Modulation Protocol Bell 103/212A
         ITU-T V.21, V.22, V.22bis, V.32, V.32bis
Fax Modulation Protocol ITU-T V.17, V.21CH2, V.27ter, V.29
Error   MNP5, V.42, V.42bis
Correction/Compression

CONNECTIONS			
Function	**Label**	**Function**	**Label**
Line in/out - Unidentified	CN1	Line in/out - Unidentified	CN2

SERIAL PORT ADDRESS		
Setting	**JP1/A**	**JP1/B**
í COM1 (3F8h)	Closed	Closed
COM2 (2F8h)	Open	Closed
COM3 (3E8h)	Closed	Open
COM4 (2E8h)	Open	Open

INTERRUPT				
Setting	**JP1/C**	**JP1/D**	**JP1/E**	**JP1/F**
2	Closed	Open	Open	Open
3	Open	Closed	Open	Open
í 4	Open	Open	Closed	Open
5	Open	Open	Open	Closed

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Proprietary AT Command Set

ACCEPT MNP RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \U [cmds]
Description:	Accept remote modem's request for MNP reliable mode

AUTO-FALLBACK/FALL-FORWARD	
Type:	Configuration
Format:	AT [cmds] %Gn [cmds]
Description:	Selects auto-fallback/fall-forward

Command	Function
í %G0	Auto-fallback/fall-forward disabled
%G1	Auto-fallback/fall-forward enabled

AUTO-RELIABLE FALLBACK CHARACTER	
Type:	Configuration
Format:	AT [cmds] %An [cmds]
Default:	Unidentified
Range:	0-127
Unit:	ASCII
Description:	Sets the character used as the auto-reliable fallback character; %A0 will disable this function.

AUTO-RELIABLE TIME BUFFER CONFIGURATION	
Type:	Configuration
Format:	AT [cmds] \C$n$ [cmds]
Description:	Controls the handling of incoming data during auto-reliable time period

Command	Function
í \C0	Data is discarded
\C1	Data is buffered
\C2	Data is discarded; modem returns to normal mode on receiving auto-reliable fallback character.

AUTO-RETRAIN	
Type:	Configuration
Format:	AT [cmds] %En [cmds]
Description:	Controls auto-retrain mode

Command	Function
%E0	Auto-retrain disabled
í %E1	Auto-retrain enabled

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BIT MAPPED REGISTERS	
Register	**Default**
S14	Unidentified
S21	Unidentified
S22	Unidentified
S23	Unidentified
S27	Unidentified

BREAK SEND	
Type:	Configuration
Format:	AT [cmds] \B*n* [cmds]
Default:	3
Range:	1-9
Unit:	.1 second
Description:	Sends break to modem

BREAK TYPE	
Type:	Configuration
Format:	AT [cmds] \K*n* [cmds]
Default:	5
Range:	0-5
Description:	Configures action of break signal

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

CONNECT MODE	
Type:	Configuration
Format:	AT [cmds] \N*n* [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
í \N3	Auto-reliable mode enabled
\N4	V.42 reliable mode enabled

CONVERT TO MNP RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \Y [cmds]
Description:	Converts to MNP reliable mode from normal or direct mode

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EXTENDED RESULT CODES	
Type:	Configuration
Format:	AT [cmds] \Vn [cmds]
Description:	Selects extended result codes
Command	**Function**
\V0	Extended result codes disabled
\V1	Extended result codes set 1 enabled
í \V2	Extended result codes set 2 enabled

FLOW CONTROL	
Type:	Configuration
Format:	AT [cmds] \Gn [cmds]
Description:	Selects modem port flow control
Command	**Function**
í \G0	Flow control disabled
\G1	Flow control 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
í \Q3	Bi-directional RTS/CTS flow control enabled

INACTIVITY TIMER	
Type:	Configuration
Format:	AT [cmds] S90=n [cmds]
Default:	0
Range:	0-255
Unit:	1 second
Description:	Sets the length of time that the modem does not receive information before it disconnects.

INITIATE MNP RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \O [cmds]
Description:	Initiates MNP reliable mode from normal or direct mode

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LOCK SERIAL PORT	
Type:	Configuration
Format:	AT [cmds] \J*n* [cmds]
Description:	Sets operation of serial port speed
Command	**Function**
ì \J0	Serial speed locked
\J1	Serial speed follows connect speed

MAXIMUM BLOCK SIZE FOR TRANSMISSION	
Type:	Configuration
Format:	AT [cmds] \A*n* [cmds]
Description:	Sets the maximum transmittable block size
Command	**Function**
\A0	MNP block size is 64 characters
\A1	MNP block size is 128 characters
\A2	MNP block size is 192 characters
ì \A3	MNP block size is 256 characters

REPORT INFORMATION	
Type:	Immediate
Format:	AT [cmds] I*n* [cmds]
Description:	Displays information requested
Command	**Function**
I0	Reports product identification code
I1	Reports factory ROM ID
I2	Tests internal memory
I3	Reports device ID
I4	Reports internal ID

SWITCH TO NORMAL MODE	
Type:	Immediate
Format:	AT [cmds] \Z [cmds]
Description:	Switches to normal mode from MNP mode

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TEST MODES		
Type:	Register	
Format:	AT [cmds] S16=*n* [cmds]	
Default:	Unidentified	
Range:	0-125	
Unit:	Bit-mapped	
Description:	Controls loopback tests, analog, digital, remote digital, and self tests.	

Bit	Value	Function
0	0	Local analog loopback not in progress
	1	Local analog loopback in progress
1	0	Not used
2	0	Local digital loopback not in progress
	1	Local digital loopback in progress
3	0	Modem not in remote digital loopback
	1	Remote digital loopback in progress
4	0	Remote digital loopback not requested
	1	Remote digital loopback requested
5	0	Remote digital loopback w/ self-test not in progress
	1	Remote digital loopback w/ self-test in progress
6	0	Local analog loopback w/ self-test not in progress
	1	Local analog loopback w/ self-test in progress

V.42 - DETECTION PHASE	
Type:	Configuration
Format:	AT [cmds] -J*n* [cmds]
Description:	Controls V.42 detection

Command	Function
-J0	V.42 detection disabled
í -J1	V.42 detection enabled

V.42bis - COMPRESSION CONTROL	
Type:	Configuration
Format:	AT [cmds] "H*n* [cmds]
Description:	Controls V.42bis data compression

Command	Function
"H0	V.42bis disabled
"H1	V.42bis when transmitting enabled
"H2	V.42bis when receiving enabled
í "H3	V.42bis when transmitting/receiving enabled

V.42bis - MAXIMUM STRING LENGTH	
Type:	Immediate
Format:	AT [cmds] "O*n* [cmds]
Default:	16
Range:	6-250
Unit:	Characters
Description:	Selects string size for V.42bis compression

MAXTECH CORPORATION
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XON/XOFF PASS-THROUGH	
Type:	Configuration
Format:	AT [cmds] \X*n* [cmds]
Description:	Selects whether XON/XOFF signals are sent to remote modem

Command	Function
í \X0	XON/XOFF signals trapped by local modem
\X1	XON/XOFF passed through local modem