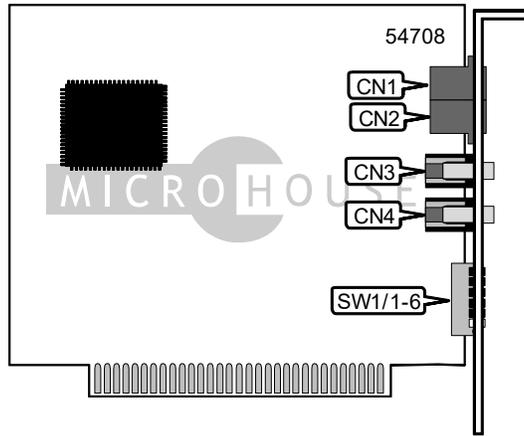


MAXTECH CORPORATION

XM 144IC (CL-MD1414ECT-SP)

Card Type	Modem/Fax card
Chip Set	Unidentified
I/O Options	Line in(RJ-11), line out(RJ-11), speaker out, microphone in
Maximum Modem Rate	14.4Kbps
Maximum Fax Rate	14.4Kbps
Data Modulation Protocol	Bell 103/212A, ITU-T V.22bis, V.22, V.32, V.32bis, V.21
Fax Modulation Protocol	ITU-T V.27ter, V.29, V.17
Error Correction/Compression	MNP5, V.42bis, V.42
Fax Class	Class I
Data Bus	8-bit ISA



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

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

INTERRUPT				
Setting	SW1/3	SW1/4	SW1/5	SW1/6
IRQ2/9	On	Off	Off	Off
IRQ3	Off	On	Off	Off
í IRQ4	Off	Off	On	Off
IRQ5	Off	Off	Off	On

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SUPPORTED COMMAND SET	
Basic AT Commands	
AT, +++, A/	
A, B, E, H, M, O, P, Q, T, V, X, Y, Z	
&C, &F, &G, &T, &W, &Y, &Z	
Extended AT Commands	
\\A, \\B, \\C, \\G, \\J, \\K, \\O, \\U, \\X, \\Y, \\Z	
%A	
"H	
-J	
S Registers	
S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S14, S16, S18, S21, S22, S23, S25	
S26, S27, S30, S37, S90, S108, S109	
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	Auto-mode detection disabled
i N1	Auto-mode detection enabled

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

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

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DATA SET READY (DSR)	
Type:	Configuration
Format:	AT [cmds] &Sn [cmds]
Description:	Selects DSR options
Command	Function
&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
&D0	DTR override
&D1	DTR toggle causes online command mode
í &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@	Wait for Quiet Answer function enabled. Modem waits until a "quiet answer," a ring-back signal followed by 5 seconds of silence
D!	Flash function initiated. Modem commanded to go off-hook for specified time before returning on-hook.
D;	Modem returned to idle state after dialing. The semicolon can only be placed at the end of the dial command.

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

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PULSE DIALING RATIO	
Type:	Configuration
Format:	AT [cmds] &Pn [cmds]
Description:	Selects pulse dial make/break ratio
Command	Function
&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

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

TRELLIS CODING	
Type:	Configuration
Format:	AT [cmds] &Un [cmds]
Description:	Enables/disables trellis coding
Command	Function
i&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	V.22bis auto-retrain disabled
%E1	V.22bis auto-retrain enabled

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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	Direct mode enabled
\N2	Reliable mode enabled
í \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

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