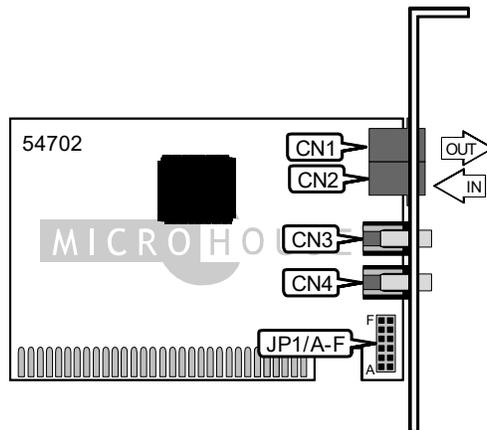


MAXTECH CORPORATION

CL-144S (SF-114HV)

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



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

SERIAL PORT ADDRESS		
Setting	JP1/A	JP1/B
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
IRQ2/9	Closed	Open	Open	Open
IRQ3	Open	Closed	Open	Open
IRQ4	Open	Open	Closed	Open
IRQ5	Open	Open	Open	Closed

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CL-144S (SF-114HV)

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, &V, &W, &Y, &Z	
Extended AT Commands	
\A, \B, \C, \G, \J, \K, \O, \U, \X, \Y, \Z	
%A, %E, %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, S26, S27, S30, 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. Connect only at DTE rate
N1	Automatic rate negotiation enabled

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

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

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CL-144S (SF-114HV)

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
i &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 Quite 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.

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 firmware ID
I4	Reports internal ID

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MAXTECH CORPORATION
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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
í L2	Medium volume setting
L3	Highest volume setting

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

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	MNP mode enabled
\N3	V.42, MNP or Normal mode enabled
\N4	V.42 mode enabled

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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CL-144S (SF-114HV)

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