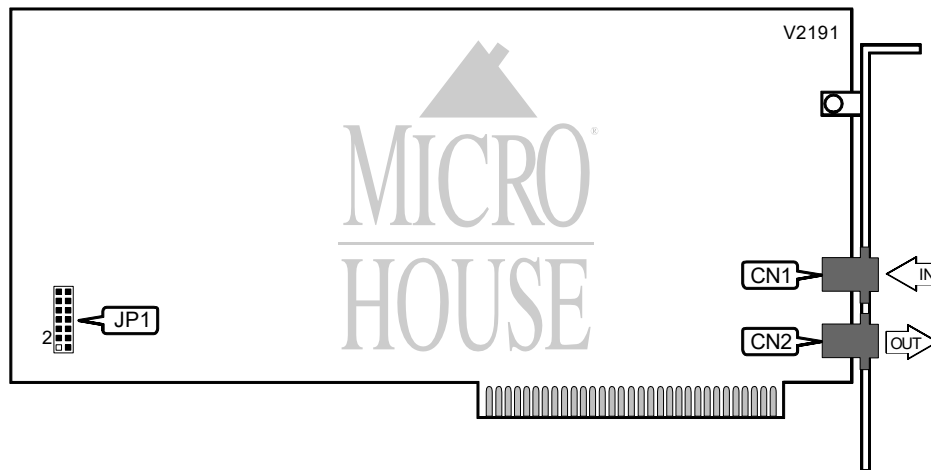


CARDINAL TECHNOLOGIES, INC

MVP144I

Card Type	Modem(asynchronous), Fax
Chip Set	Rockwell
Maximum Data Rate	14.4Kbps
Maximum Fax Rate	14.4Kbps
Data Bus	8-Bit ISA
Fax Class	Class I
Data Modulation Protocol	Bell 103A/212A
	ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis
Fax Modulation Protocol	ITU-T V.17, V.21CH2, V.27, V.29
Error Correction/Compression	MNP2-5, V.42, V.42bis, T.30



CONNECTIONS			
Function	Label	Function	Label
Line in	CN1	Line out	CN2

SERIAL PORT ADDRESS	
Setting	JP1
COM1 (3F8h)	Pins 1 & 8, 2 & 9 closed
COM2 (2F8h)	Pins 2 & 9 closed
COM3 (3E8h)	Pins 1 & 8 closed
COM4 (2E8h)	Pins 1 & 2 closed

INTERRUPT SELECTION	
Setting	JP1
2	Pins 4 & 5, 6 & 13 closed
3	Pins 4 & 11, 5 & 6 closed
4 (COM 1)	Pins 3 & 10 closed
4 (COM 2)	Pins 3 & 10, 5 & 6 closed
5	Pins 5 & 12, 6 & 7 closed
7	Pins 5 & 6, 7 & 14 closed
9	Pins 4 & 5, 6 & 13 closed

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Proprietary AT Command Set

BACKSPACE CHARACTER	
Type:	Register
Format	AT [cmds] S5= <i>n</i> [cmds]
Default:	8
Range:	0-255
Unit:	ASCII
Description:	Selects a character used for backspace <BS>

BIT MAPPED REGISTERS		
Register		Default
S14		138
S21		4
S22		117
S23		55
S27		74
S28		0
S31		194
S39		3
S40		105
S41		195

DCE LINE SPEED		
Type:	Register	
Format	AT [cmds] S37= <i>n</i> [cmds]	
Description:	Sets the maximum allowable data exchange rate attempted during handshake process.	
Command	Function	
í S37=0	AT command rate	
S37=3	300bps	
S37=5	1200bps in V.22	
S37=6	2400bps in V.22bis	
S37=7	1200/75 in V.23	
S37=8	4800bps in V.32bis/V.32	
S37=9	9600bps in V.32bis/V.32	
S37=10	12.0Kbps in V.32bis	
S37=11	14.4Kbps in V.32bis	
S37=12	7200bps in V.32bis	

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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
DL	Re-dial last number
DP	Pulse dialing enabled
DR	Answer mode enabled; originate mode disabled following handshake initiation.
DS=n	Dial stored telephone number <i>n</i> (<i>n</i> =0 to 3)
D*	Dials star digit
D#	Dials gate digit
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&	Waits for bong tone (AT&T)
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 of 5 seconds, is received prior to executing the rest of the dial string.
D^	Toggles the calling tone for current dialing attempt only
D;	Modem returned to idle state after dialing. The semicolon can only be placed at the end of the dial command.

DTR CHANGE THRESHOLD	
Type:	Register
Format	AT [cmds] S25= <i>n</i> [cmds]
Default:	5
Range:	0-255
Unit:	.01 second
Description:	Sets maximum time a change in the DTR signal will be ignored
Note:	This is the function of this register when &M1 is not set.

ESCAPE SEQUENCE GUARD TIME	
Type:	Register
Format	AT [cmds] S12= <i>n</i> [cmds]
Default:	50
Range:	0-255
Unit:	.02 seconds
Description:	Maximum allowable time between escape character sequence initiation and completion for the escape sequence to be executed. A value of 0 disables guard time.

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FACTORY DEFAULT PROFILE	
Type:	Configuration
Format:	AT [cmds] &Fn [cmds]
Description:	Sets values in active profile to values found in the default profile
Command	
&F0	Restores factory setting 0
&F1	Restores factory setting 1

FLOW CONTROL	
Type:	Configuration
Format:	AT [cmds] &Kn [cmds]
Description:	Enables flow control options
Command	Function
&K0	Flow control disabled
&K3	RTS/CTS flow control enabled
&K4	XON/XOFF flow control enabled
&K5	Transparent XON/XOFF flow control enabled
&K6	RTS/CTS and XON/XOFF flow control enabled

LINE MODULATION	
Type:	Configuration
Format:	AT [cmds] Fn [cmds]
Description:	Selects type of modulation used by the modem
Command	Function
i F0	Auto-detect mode enabled
F1	V.21 or Bell 103
F3	V.32
F4	V.22 at 1200bps or Bell 212A
F5	V.22bis
F6	V.32bis at 4800bps or V.32 at 4800bps
F7	V.32bis at 7200bps
F8	V.32bis at 9600bps or V.32 at 9600bps
F9	V.32bis at 12.0Kbps
F10	V.32bis at 14.4Kbps

NO CARRIER TIME-OUT	
Type:	Register
Format	AT [cmds] S7=n [cmds]
Default:	50
Range:	1-255
Unit:	1 second
Description:	Maximum wait time the modem uses after dialing to detect a carrier signal from the remote modem for both originating and answering calls.
Note: W dial modifier also uses S7 to set the maximum time to wait.	

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REPORT INFORMATION	
Type:	Immediate
Format:	AT [cmds] ln [cmds]
Description:	Displays information requested
Command	Function
I0	Reports modem product code
I1	Reports firmware checksum
I2	Tests and reports firmware checksum
I3	Reports firmware revision
I4	Reports Identifier string
I5	Reports country code
I6	Reports Data Pump modem and revision

SLEEP TIMER	
Type:	Register
Format	AT [cmds] S24= <i>n</i> [cmds]
Default:	0
Range:	0-255
Unit:	1 second
Description:	Maximum duration of DTE and DCE inactivity allowed prior to initiating low-power sleep mode.