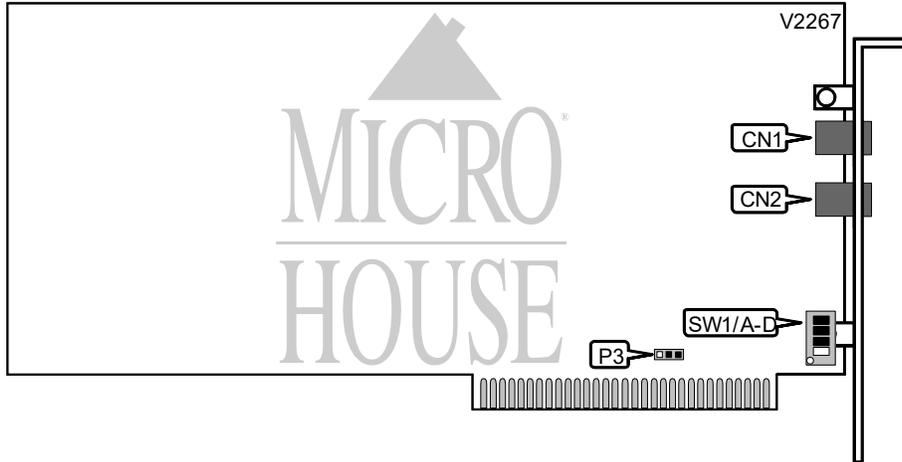


CARDINAL TECHNOLOGIES, INC.
14400BPS-V.32BIS V.42 BIS FAX (INT)

Card Type	Fax, Modem (asynchronous)
Chip Set	Unidentified
Maximum Data Rate	14.4Kbps
Maximum Fax Rate	Unidentified
Data Bus	8-bit ISA
Fax Class	Unidentified
Data Modulation Protocol	Bell 103/212A
Fax Modulation Protocol	ITU-T V.21, V.22, V.22bis, V.32, V.32bis
Error Correction/Compression	Unidentified
	MNP5, V.42, V.42bis



CONNECTIONS				
Function	Label	Function	Label	Label
Line out/in	CN1	Line in/out	CN2	

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

INTERRUPT SELECTION				
Setting	SW1/C	SW1/D	P3/Pins 1 & 2	P3/Pins 2 & 3
2	N/A	N/A	Open	Closed
3	Off	On	N/A	N/A
4	On	Off	N/A	N/A
5	N/A	N/A	Closed	Open

Proprietary AT Command Set

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

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BIT MAPPED REGISTERS	
Register	Default
S14	Unidentified
S16	Unidentified
S21	Unidentified
S22	Unidentified
S23	Unidentified
S27	Unidentified
S40	Unidentified
S41	Unidentified

BREAK TYPE			
Type:	Configuration		
Format:	AT [cmds] \Kn [cmds]		
Description:	Configures action of break signal		
Command	Break from DTE during Normal or V.42/V.42bis/MNP mode	Break received from remote modem during Normal mode	Break received from DTE during Direct mode
\K0	Online command mode enabled, send no break to remote modem	Break sent to remote modem and buffers cleared	Online command mode enabled, send no break to remote modem
\K1	Break sent to remote modem and buffers cleared	Break sent to remote modem and buffers cleared	Send break to remote modem immediately
\K2	Online command mode enabled, send no break to remote modem	Break sent immediately to DTE	Online command mode enabled, send no break to remote modem
\K3	Send break to remote modem immediately	Break sent immediately to DTE	Send break to remote modem immediately
\K4	Online command mode enabled, send no break to remote modem	Break sent with received data to the DTE	Online command mode enabled, send no break to remote modem
í \K5	Send break with transmitted data	Break sent with received data to the DTE	Send break to remote modem immediately

CLEAR V.42bis DICTIONARY	
Type:	Immediate
Format:	AT [cmds] %Pn [cmds]
Description:	Clears the V.42bis dictionary

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

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COMMUNICATIONS MODE	
Type:	Configuration
Format:	AT [cmds] &Mn [cmds]
Description:	Selects communications mode
Command	Mode
&M0	Asynchronous mode, serial port speed follows connect speed
&M1	Not used
&M2	Not used
&M3	Not used

COMMUNICATIONS MODE	
Type:	Configuration
Format:	AT [cmds] &Qn [cmds]
Description:	Selects communications mode options
Command	Mode
&Q0	Asynchronous mode, serial port speed follows connect speed
&Q1	Not used
&Q2	Not used
&Q3	Not used
&Q4	Reports 'OK'
í &Q5	Error correction mode
&Q6	Asynchronous mode, buffered asynchronous mode
&Q7	Not used
&Q8	MNP mode
&Q9	V.42/42bis mode

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

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

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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.
Modifier	Function
L	Re-dial last number
P	Pulse dialing enabled
R	Answer mode enabled, originate mode disabled following handshake initiation
Sn or S=n	Dial stored telephone number <i>n</i>
T	Tone dialing enabled
W	Dialing resumed following dial tone detection
,	Dialing paused for amount of time specified in S8 register
!	Modem commanded to go off-hook for specified time before returning on-hook
@	Wait for quiet answer
;	Modem returned to command state after dialing

INACTIVITY TIMER	
Type:	Configuration
Format:	AT [cmds] \T <i>n</i> [cmds]
Default:	0
Range:	0-42
Unit:	1 minute
Description:	Sets the length of time that the modem does not receive information before it disconnects.
Note:	AT\T0 will disable timer.

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

REPORT INFORMATION	
Type:	Immediate
Format:	AT [cmds] I <i>n</i> [cmds]
Description:	Displays information requested
Command	Function
I0	Reports modem product code
I1	Reports firmware checksum
I2	Tests and reports firmware checksum
I3	Reports product version information

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V.42bis - COMPRESSION CONTROL	
Type:	Configuration
Format:	AT [cmds] %Mn [cmds]
Description:	Controls V.42bis data compression
Command	Function
%M0	V.42bis disabled
%M1	V.42bis when transmitting enabled
%M2	V.42bis when receiving enabled
í %M3	V.42bis when transmitting/receiving enabled

V.42bis - DICTIONARY SIZE	
Type:	Configuration
Format:	AT [cmds] %Dn [cmds]
Description:	Select V.42 dictionary size
Command	Function
%D0	Select 512 bytes
%D1	Select 1024 bytes
í %D2	Select 2048 bytes
%D3	Select 4096 bytes (one-way only)

V.42bis - MAXIMUM STRING LENGTH	
Type:	Immediate
Format:	AT [cmds] %Sn [cmds]
Default:	32
Range:	6-250
Unit:	Characters
Description:	Selects string size for V.42bis compression