Card Type Fax, Modem (asynchronous), Voice

Chip Set Rockwell

I/O Options Speakerphone, Voicemail

Maximum Data Rate14.4KbpsMaximum Fax Rate14.4KbpsData Bus8-bit ISAFax ClassClass I & IIData Modulation ProtocolBell 103/212A

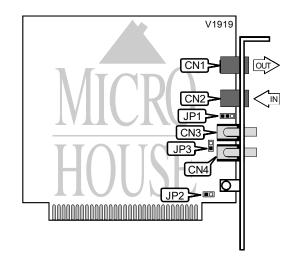
Fax Modulation Protocol ITU-

Error

Correction/Compression

ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis ITU-T V.17, V.21CH2, V.27ter, V.29, V.33

MNP10, V.42bis



CONNECTIONS			
Function	Label	Function	Label
Line out	CN1	Microphone	CN3
Line in	CN2	Speaker	CN4

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Electret microphone	JP1	Pins 1 & 2 closed
Plantronics headset	JP1	Pins 2 & 3 closed
Dynamic microphone	JP1	Open
í Unpowered speaker, volume medium level	JP2	Closed
Powered speaker, volume low level	JP2	Open
Volume high level	JP2	Closed
í Unpowered speaker, volume medium level	JP3	Closed
Powered speaker, volume low level	JP3	Open
Volume high level	JP3	Open

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Proprietary AT Command Set

	AUTO-RETRAIN - AUTO-FALLBACK/FALL-FORWARD
Type:	Configuration
Format:	AT [cmds] %E <i>n</i> [cmds]
Description:	Controls auto-retrain mode and auto-fallback/fall-forward
Command	Function
í %E0	Auto-retrain disabled
%E1	Auto-retrain enabled
%E2	Auto-fallback/fall-forward enabled
%E3	Auto-retrain enabled with fast hang-up

BIT MAPPED REGISTERS		
Register	Default	
S14	Unidentified	
S16	Unidentified	
S21	Unidentified	
S22	Unidentified	
S23	Unidentified	
S27	Unidentified	
S28	Unidentified	
S31	Unidentified	
S40	Unidentified	
S41	Unidentified	

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

	BREAK TYPE
Type:	Configuration
Format:	AT [cmds] \Kn [cmds]
Description:	Configures action of break signal

	CALLER ID
Type:	Configuration
Format:	AT [cmds] #CID=n [cmds]
Description:	Controls the Caller ID function
Command	Function
#CID=0	Caller ID disabled
#CID=1	Caller ID 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	
%C2	V.42bis enabled	
í %C3	MNP5 and V.42bis 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	LAP-M error correcting only enabled
\N5	MNP error correcting only enabled

	DIAL
Type:	Immediate
Format:	AT [cmds] D<#> [cmds]
Description:	Dials telephone number according to any modifiers included in the string
Modifier	Function
L	Redials last number
Р	Pulse dialing enabled
T	Tone dialing enabled
W	Dialing resumed following dial tone detection
j	Dialing paused for amount of time specified in S8 register
@	Modem waits for a ring-back signal followed by silence up to 5 second prior to
	executing the rest of the dial string.
R	Command recognized and not initiated
,	Modem returned to command mode after dialing.
!	Flash function initiated. Goes on-hook for amount of time specified in S29 register
S=(0-3)	Number in memory location &Zn dialed
۸	Calling tone enabled, data mode only.

	FLASH DIAL MODIFIER TIME
Type:	Register
Format	AT [cmds] S29= <i>n</i> [cmds]
Default:	0
Range:	0-255
Unit:	.01 second
Description:	Time the modem will go on-hook upon receiving the ! dial modifier in dial string.

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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:	Register
Format:	AT [cmds] S39= <i>n</i> [cmds]
Description:	Select the type of flow control used
Command	Function
S39=0	Flow control disabled
í S39=3	Hardware flow control enabled
S39=4	Software flow control enabled
S39=5	Transparent software flow control enabled
S39=6	Both hardware and software flow control enabled

	FLOW CONTROL CHARACTER - XOFF
Type:	Register
Format:	AT [cmds] S33=n [cmds]
Default:	19
Range:	0-255
Unit:	ASCII
Description:	Sets the character used to represent XOFF

	FLOW CONTROL CHARACTER - XON
Type:	Register
Format:	AT [cmds] S32=n [cmds]
Default:	17
Range:	0-255
Unit:	ASCII
Description:	Sets the character used to represent XON

	LINE SIGNAL LEVEL
Type:	Immediate
Format:	AT [cmds] %L [cmds]
Description:	Returns a value which indicates the received line signal level (-dBm)

	LINE SIGNAL QUALITY
Type:	Immediate
Format:	AT [cmds] %Q [cmds]
Description:	Returns a value which indicates line signal quality

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

	MNP - STREAM/BLOCK MODE
Type:	Configuration
Format:	AT [cmds] \Ln [cmds]
Description:	Selects the transfer mode for MNP link
Command	Function
í \LO	Stream mode for MNP enabled
\L1	Block mode for MNP enabled

	SLEEP TIMER
Type:	Register
Format	AT [cmds] S24=n [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.

	SPEAKERPHONE OPTIONS
Type:	Immediate/Configuration
Format:	AT [cmds] (see below) [cmds]
Description:	Configures the modem to voice mode
Command	Function
#CLS=8	Enable voice mode
#VLS=6	Enable speakerphone
Α	Answer in-coming call
#VRN=0	To originate a call, then AT<#> <enter></enter>
HZ	Ends the call

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	SPEAKERPHONE SETTINGS
Type:	Configuration
Format:	AT [cmds] #SPK=x, y, z [cmds]
Description:	Controls the speakerphone settings
Command	Function
<i>x</i> =0	Microphone muted, speaker enabled
í x=1	Microphone and speaker enabled
x=2	Microphone on maximum and speaker disabled
<i>y</i> =(0-16)	Speaker volume; increase the value to lower the volume.
í Y=5	Default setting for speaker
Z=(0-3)	Microphone sensitivity; increase the value for more sensitivity.
<i>i Z</i> =1	Default setting for microphone