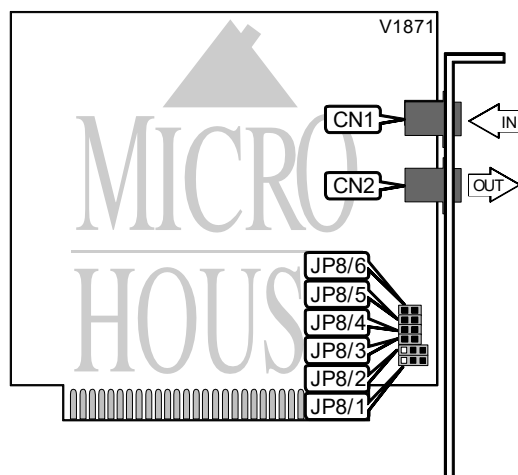# WISECOM, INC.
DATA/FAX/VOICE MODEM 14.4 (REV.1)

Card Type   Fax, Modem (asynchronous), Voice
Chip Set   Cirrus Logic
I/O options   Voice
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.32, V.32bis
Fax Modulation Protocol   ITU-T V.17, V.21CH2, V.27ter, V.29
Error Correction/Compression   MNP5, V.42, V.42bis

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

SERIAL PORT ADDRESS		
Setting	**JP8/1**	**JP8/2**
COM1 (3F8h)	Pins 1 & 2 closed	Pins 1 & 2 closed
COM2 (2F8h)	Pins 2 & 3 closed	Pins 1 & 2 closed
COM3 (3E8h)	Pins 1 & 2 closed	Pins 2 & 3 closed
í COM4 (2E8h)	Pins 2 & 3 closed	Pins 2 & 3 closed

INTERRUPT				
Setting	**JP8/3**	**JP8/4**	**JP8/5**	**JP8/6**
2	Closed	Open	Open	Open
í 3	Open	Closed	Open	Open
4	Open	Open	Closed	Open
5	Open	Open	Open	Closed

Proprietary AT Command Set

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

AUTO FALL FORWARD/FALLBACK	
Type:	Configuration
Format:	AT [cmds] %G*n* [cmds]
Description:	Selects auto fallback/fall forward
Command	**Function**
í %G0	Fallback/fall forward enabled
%G1	Fallback/fall forward disabled

AUTO-RELIABLE FALLBACK CHARACTER	
Type:	Configuration
Format:	AT [cmds] %A*n* [cmds]
Default:	Unidentified
Range:	0-127
Unit:	ASCII
Description:	Sets the character used as the auto-reliable fallback character. %A0 will disable this function.

AUTO-RELIABLE TIME BUFFER CONFIGURATION	
Type:	Configuration
Format:	AT [cmds] \C*n* [cmds]
Description:	Controls the handling of incoming data during auto-reliable time period
Command	**Function**
í \C0	Data is discarded
\C1	Data is buffered
\C2	Data is discarded, modem returns to normal mode on receiving auto-reliable fallback character.

AUTO-RETRAIN	
Type:	Configuration
Format:	AT [cmds] %E*n* [cmds]
Description:	Selects auto-retrain mode
Command	**Function**
%E0	Auto-retrain disabled
í %E1	Auto-retrain enabled

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BIT MAPPED REGISTERS	
Register	**Default**
S14	Unidentified
S21	Unidentified
S22	Unidentified
S23	Unidentified
S27	Unidentified

BREAK SEND	
Type:	Configuration
Format:	AT [cmds] \B*n* [cmds]
Range:	0-9
Unit:	.1 seconds
Description:	Sends break to modem

BREAK TYPE	
Type	Configuration
Format	AT [cmds] \K*n* [cmds]
Default	5
Range	0-5
Description	Configures action of break signal

CALLING TONE	
Type:	Configuration
Format:	AT [cmds] -C*n* [cmds]
Description:	Controls whether the DTE will allow the modem to send a 1300Hz calling tone when originating.
Command	**Function**
í -C0	Disable calling tone
-C1	Enable calling tone

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

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CONNECT MODE	
Type:	Configuration
Format:	AT [cmds] \Nn [cmds]
Description:	Sets connect mode

Command	Function
\N0	Normal mode enabled
\N1	Direct mode enabled
\N2	MNP mode enabled
í \N3	Auto-reliable mode enabled
\N4	V.42 mode enabled

CONVERT TO RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \Y [cmds]
Description:	Initiates reliable mode link

EXTENDED RESULT CODES	
Type:	Configuration
Format:	AT [cmds] \Vn [cmds]
Description:	Selects extended result codes

Command	Function
\V0	Extended result codes disabled
\V1	Reliable result codes enabled
í \V2	Error control and compression result codes enabled

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	
Type:	Configuration
Format:	AT [cmds] \Qn [cmds]
Description:	Sets type of flow control used by modem

Command	Function
\Q0	Flow control disabled
\Q1	XON/XOFF flow control enabled
\Q2	CTS flow control to DTE enabled
í \Q3	RTS/CTS flow control enabled

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INACTIVITY TIMER	
Type:	Configuration
Format:	AT [cmds] \T*n* [cmds]
Default:	0
Range:	0-90
Unit:	1 minute
Description:	Sets the length of time that the modem does not receive information before it disconnects.

INACTIVITY TIMER	
Type:	Register
Format:	AT [cmds] S90=*n* [cmds]
Default:	0
Range:	0-255
Unit:	1 second
Description:	Sets the length of time that the modem does not receive information before it disconnects. S90=0 will disable.

LOCK SERIAL PORT	
Type:	Configuration
Format:	AT [cmds] \J*n* [cmds]
Description:	Sets operation of serial port speed

Command	Function
í \J0	Serial speed locked
\J1	Serial speed follows connect speed

MAXIMUM BLOCK SIZE FOR TRANSMISSION	
Type:	Configuration
Format:	AT [cmds] \A*n* [cmds]
Description:	Sets the maximum transmittable block size

Command	Function
\A0	MNP block size is 64 characters
\A1	MNP block size is 128 characters
\A2	MNP block size is 192 characters
í \A3	MNP block size is 256 characters

ON-LINE IN RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \O [cmds]
Description:	Returns to on-line and requests reliable mode connection.

RETURN TO RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \Z [cmds]
Description:	Ends reliable mode link and initiate return to normal mode

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TEST MODES		
Format	AT [cmds] S16=*n* [cmds]	
Default:	Unidentified	
Range:	Unidentified	
Unit:	Bit-mapped	
Description:	Controls loopback tests, analog, digital, remote digital, and self tests.	
Bit	**Value**	**Function**
0	0	Local analog loopback not in progress
	1	Local analog loopback in progress
1	0	Not used
2	0	Local digital loopback not in progress
	1	Local digital loopback in progress
3	0	Modem not in remote digital loopback
	1	Remote digital loopback in progress
4	0	Remote digital loopback not requested
	1	Remote digital loopback requested
5	0	Remote digital loopback w/ self-test not in progress
	1	Remote digital loopback w/ self-test in progress
6	0	Local analog loopback w/ self-test not in progress
	1	Local analog loopback w/ self-test in progress

V.42 DETECTION PHASE	
Type:	Configuration
Format:	AT [cmds] -J*n* [cmds]
Description:	Controls V.42 detection
Command	**Function**
-J0	V.42 detection disabled
í -J1	V.42 detection enabled

V.42bis COMPRESSION CONTROL	
Type:	Configuration
Format:	AT [cmds] "H*n* [cmds]
Description:	Controls V.42bis data compression
Command	**Function**
"H0	V.42bis disabled
"H1	V.42bis when transmitting enabled
"H2	V.42bis when receiving enabled
í "H3	V.42bis when transmitting/receiving enabled

V.42bis MAXIMUM STRING LENGTH	
Type:	Immediate
Format:	AT [cmds] "Closed [cmds]
Default:	16
Range:	6-250
Unit:	Characters
Description:	Selects string size for V.42bis compression

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XON/XOFF PASS-THROUGH	
Type:	Configuration
Format:	AT [cmds] \Xn [cmds]
Description:	Selects whether XON/XOFF signals are sent to remote modem

Command	Function
í \X0	XON/XOFF signals trapped by local modem
\X1	XON/XOFF passed through local modem