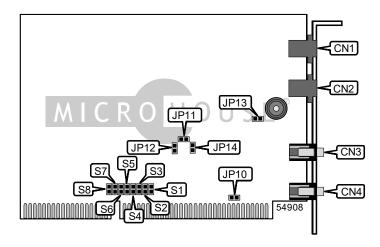
Card Type Modem (asynchronous)

Chip Set Unidentified

I/O Options Speaker out, microphone

Maximum Modem Rate28.8KbpsMaximum Fax Rate14.4KbpsData Modulation ProtocolUnidentifiedFax Modulation ProtocolUnidentifiedError Correction/CompressionUnidentifiedFax ClassUnidentifiedData Bus16-bit ISA

Card Size Half-length, full-height card



	CONNE	CTIONS	
Function	Label	Function	Label
Line out (RJ-11)	CN1	Speaker out	CN3
Line in (RJ-11)	CN2	Microphone	CN4

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Factory configured - do not alter		Unidentified
í Factory configured - do not alter		Unidentified
í Factory configured - do not alter	S8	Unidentified

	SERIAL PORT ADDRESS	
Setting	S1	S2
COM1 (3F8h)	Open	Open
COM2 (2F8h)	Closed	Open
í COM3 (3E8h)	Open	Closed
COM4 (2E8h)	Closed	Closed

	INTER	RUPT	
Setting	S 3	S4	S5
IRQ 3	Closed	Open	Open
IRQ 4	Open	Closed	Open
í IRQ 5	Open	Open	Closed

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		PLUG AN	ND PLAY		
Plug & Play	JP10	JP11	JP12	JP13	JP14
Enabled	Closed	Closed	Closed	Open	Closed
í Disabled	Open	Open	Open	Closed	Open

SUPPORTED COMMAND SET
Basic AT Commands
AT, '+++', A/
A, E, H, M, O, S, V, X, Y, Z
&F, &V, &W, &Y, &Z
Extended AT Commands
\K, \Q
%A, %C
S Registers
S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S25, S26, S38
Note: See MHI Help File for full command documentation.

Proprietary AT Command Set

	AUTO FALLFORWARD/FALLBACK
Type:	Configuration
Format:	AT [cmds] &An [cmds]
Description:	Controls the auto fallforward/fallback
Command	Function
í &A0	Disable auto fallforward/fallback
&A1	Enable auto fallforward/fallback

	CONNECTION SPEED NEGOTIATION
Type:	Configuration
Format:	AT [cmds] &Hn [cmds]
Description:	Controls the connection speed negotiation
Command	Function
í &H0	V.34 connect speed negotiation (28.8Kbps-300bps)
&H1	V.34 (28.8Kbps- 4800bps)
&H2	V.32bis automatic (14.4Kbps -300bps)
&H3	V.32bis only (14.4Kbps - 4800bps)
&H4	V.32 automatic (9600-300bps)
&H5	V.32 only (9600-4800bps)
&H6	V.22 only (2400-1200bps)
&H7	V.22 only (1200bps)
&H8	212 only (1200bps)
&H9	103 only (300bps)
&H10	V.21 only (300bps)

	DATA CARRIER DETECT (DCD)
Type:	Configuration
Format:	AT [cmds] &Cn [cmds]
Description:	Selects whether the DCD option is enabled or disabled
•	
Command	Function
Command í &C0	
	Function

	DATA SET READY (DSR)
Type:	Configuration
Format:	AT [cmds] &Sn [cmds]
Description:	Selects DSR options
Command	Function
&S0	DSR forced high
í &S1	DSR high only while modem is handshaking or connected
&S2	DSR high only while modem is connected
&S3	DSR is forced high in all modes

	DATA TERMINAL READY (DTR)
Type:	Configuration
Format:	AT [cmds] &Dn [cmds]
Description:	Selects modem response to DTR
Note: The action ea	ach variant of &D causes depends on the setting of &Q
Command	Function
í &D0	Modem does not respond to DTR
&D1	Modem goes to command mode after DTR goes is off
&D2	Modem goes to command mode and disconnects (hangs up) after DTR goes off;
	Auto-Answer is disabled.
&D3	Modem is initialized after DTR goes off

	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
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.

	REPORT INFORMATION
Type:	Immediate
Format:	AT [cmds] In [cmds]
Description:	Displays information requested
Command	Function
10	Reports product code
l1	Reports 000
12	Reports OK or ERROR
13	Reports firmware revision number
14	Reports configuration settings

	RESULT CODES
Type:	Configuration
Format:	AT [cmds] Qn [cmds]
Description:	Enables modem to send result codes to the DTE
Command	Function
Command í Q0	Function Result code sending enabled

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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:	Controls the trellis coding
Command	Function
&U0	Enable trellis coding for V.32 mode at 9600bps
í &U1	Disable trellis coding for V.32 mode at 9600bps

Extended AT Commands

	ANSWER MODE
Type:	Configuration
Format:	AT [cmds] %On [cmds]
Description:	Sets the answer mode
Command	Function
Command %O0	Function Answer mode if ringing
!	-

	AUTO-RELIABLE TIME BUFFER CONFIGURATION
Type:	Configuration
Format:	AT [cmds] \Cn [cmds]
Description:	Controls the handling of incoming data during auto-reliable time period
Command	Function
\C0	Timeout and fallback, speed buffer, no data buffer
\C1	Timeout and fallback, speed buffer, buffer receive data
\C2	Auto reliable, fallback with fallback character, speed buffer, no receive data buffer
/C3	Timeout and fallback, ITU-T V.14, buffer receive data
\C4	Timeout and fallback with fallback character, ITU-T V.14, no data buffer

	BREAK SEND
Type:	Configuration
Format:	AT [cmds] \Bn [cmds]
Description:	Sends break to modem
Command	Function
\B0	6 data bits, no parity, 1 stop bit
\B1	7N1 character length
\B2	7P1 character length
\B3	8P1 character length
\B4	7P2 character length
\B5	8P1 character length

	CALLER ID
Type:	Configuration
Format:	AT [cmds] #CC=n [cmds]
Description:	Controls the Caller ID function
Command	Function
#CC=0	Function Caller ID disabled

CHARACTER ABORT	
Type:	Configuration
Format:	AT [cmds] %Kn [cmds]
Description:	Controls the character abort
Command	Function
%K0	Enable 2 second delay to character abort
%K1	Disable delay to character abort

	COMPUTER - TO - MODEM SPEED SELECTION
Type:	Configuration
Format:	AT [cmds] \Tn [cmds]
Description:	Controls the computer- to - modem speed
Command	Function
\T0	Autobaud
\T1	Set speed to last AT command entry speed
\T2	Force 300bps after connecting
\T3	Force 1200bps after connecting
\T4	Force 2400bps after connecting
\T5	Force 4800bps after connecting
\T6	Force 7200bps after connecting
\T7	Force 9600bps after connecting
\T8	Force 12.0bps after connecting
\T9	Force 14.4bps after connecting
\T10	Force 16.8bps after connecting
\T11	Force 19.2bps after connecting
\T12	Force 21.6bps after connecting
\T13	Force 24.0bps after connecting
\T14	Force 26.4bps after connecting
\T15	Force 28.8bps after connecting
\T16	Force 38.4bps after connecting
\T17	Force 57.6bps after connecting
\T18	Force 76.8bps after connecting
\T19	Force 115.2bps after connecting
\T20	Force 128.0bps after connecting

	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
\N3	Auto-reliable mode enabled
\N4	V.42 reliable mode enabled
\N5	V.42, MNP reliable mode enabled
\N6	Simulated controlled carrier

	DTR SIGNAL
Type:	Immediate
Format:	AT [cmds] %Zn [cmds]
Description:	Sets the DTR signal
Command	Function
%Z0	Ignore DTR toggle
%Z1	Dial stored phone number (0-3) on DTR toggle
%Z2	Attempt to connect on DTR toggle

	EXTENDED RESULT CODES
Type:	Configuration
Format:	AT [cmds] \Vn [cmds]
Description:	Selects extended result codes
Command	Function
\V0	Connect and protocol message reports modem - to - modem speed
\V1	Connect and protocol message reports computer - to - modem speed
\V2	Connect message reports computer - to - modem speed/V.42 error correction
\V3	Connect message reports computer - to - modem speed

FLOW CONTROL	
Type:	Configuration
Format:	AT [cmds] \Gn [cmds]
Description:	Selects modem port flow control
Command	Function
\G0	Flow control disabled
\G1	XON/XOFF flow control enabled
\G2	XON/XOFF flow control only for transmitting data
\G3	XON/XOFF flow control with pass-through enabled

	PARITY
Type:	Immediate
Format:	AT [cmds] \P [cmds]
Description:	Controls parity
Command	Function
\P0	Even Parity
\P1	Space
\P2	Odd
\P3	Mark
\P4	Automatic

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	RETRAIN
Type:	Immediate
Format:	AT [cmds] %Q [cmds]
Description:	Sets the retrain
Command	Function
Command %Q0	Function Disable retrain

	RETURN CALL PROGRESS MESSAGE SPEED
Type:	Immediate
Format:	AT [cmds] %R [cmds]
Description:	Sets the return call progress message speed
Command	Function
%R0	Return call progress message at current computer - to - modem speed
%R1	Return call progress message at last computer- to - modem speed
%R2	Return call progress message at 300bps
%R3	Return call progress message at 1200bps
%R4	Return call progress message at 2400bps
%R5	Return call progress message at 4800bps
%R6	Return call progress message at 7200bps
%R7	Return call progress message at 9600bps
%R8	Return call progress message at 12.0bps
%R9	Return call progress message at 14.4bps
%R10	Return call progress message at 16.8bps
%R11	Return call progress message at 19.2bps
%R12	Return call progress message at 21.6bps
%R13	Return call progress message at 24.0bps
%R14	Return call progress message at 26.4bps
%R15	Return call progress message at 28.8bps
%R16	Return call progress message at 38.4bps
%R17	Return call progress message at 57.6bps
%R18	Return call progress message at 76.8bps
%R19	Return call progress message at 115.2bps
%R20	Return call progress message at 128.0bps

S(status) -REGISTERS

	RETRANSMISSION COUNTER
Type:	Register
Format	AT [cmds] S70=n [cmds]
Default:	100
Range:	0-255
Description:	Sets the retransmission counter