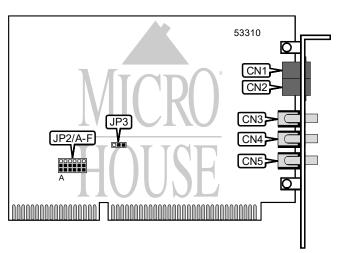
Card Type Chipset I/O Options Maximum Data Rate Maximum Fax Rate Data Modulation Fax Modulation Error Correction/Compression Fax Class Data Bus Card Size Modem (asynchronous) Phylon PHY2000 Audio line in, audio line out, microphone in, voice, speakerphone, DSVD 33.6Kbps 14.4Kbps ITU-T V.22, V.32, V.32bis, V.34 ITU-T V.17, V.21CH2, V.27ter, V.29 V.42, V.42bis

Class I 16-bit ISA Full height, half length



	CONNE	CTIONS	
Function	Label	Function	Label
Telephone line	CN1	Microphone in	CN4
Telephone line	CN2	Audio line in	CN5
Audio line out	CN3		

USER CONFIGURABLE SETTINGS		
Setting	Label	Position
í DSP base I/O address is 380h	JP3	Pins 1 & 2 closed
DSP base I/O address is 300h	JP3	Pins 2 & 3 closed

		DSP IN	TERRUPT SEL	ECTION		
Setting	JP2/A	JP2/B	JP2/C	JP2/D	JP2/E	JP2/F
4	Open	Open	Open	Open	Pins 2 & 3	Open
5	Open	Open	Open	Open	Open	Pins 2 & 3
7	Pins 2 & 3	Open	Open	Open	Open	Open
10	Open	Pins 2 & 3	Open	Open	Open	Open
í 11	Open	Open	Pins 2 & 3	Open	Open	Open
12	Open	Open	Open	Pins 2 & 3	Open	Open

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		SERIAL POR	RT INTERRUPT	SELECTION		
Setting	JP2/A	JP2/B	JP2/C	JP2/D	JP2/E	JP2/F
í3	Open	Open	Open	Open	Open	Open
4	Open	Open	Open	Open	Pins 1 & 2	Open
5	Open	Open	Open	Open	Open	Pins 1 & 2
7	Pins 1 & 2	Open	Open	Open	Open	Open
10	Open	Pins 1 & 2	Open	Open	Open	Open
11	Open	Open	Pins 1 & 2	Open	Open	Open
12	Open	Open	Open	Pins 1 & 2	Open	Open

SUPPORTED STANDARD COMMANDS
Basic AT Commands
+++, 'comma', A/
A, D, E, L, M, N, P, Q, T, V, W, X, Z
&D, &F, &K, &P, &T
Extended AT Commands
%C, %E
S-Registers
S0, S7, S10, S91
Note: See MHI help file for complete information.

UNIDENTIFIEI	D COMMANDS
Command	Default
S95	Unidentified

## **Proprietary AT Command Set**

	DISPLAY INFORMATION
Туре:	Immediate
Format:	AT [cmds] I <i>n</i> [cmds]
Description:	Displays information requested about the modem.
Command	Function
10	Displays product identification code.
1	Displays firmware revision.

	DISPLAY CHIPSET MANUFACTURER
Type:	Immediate
Format:	AT [cmds] #MFR? [cmds]
Description:	Displays the chipset manufacturer's name.

	DISPLAY CHIPSET MODEL NAME
Type:	Immediate
Format:	AT [cmds] #MDL? [cmds]
Description:	Displays the model name of the modem's chipset.

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	DISPLAY CHIPSET REVISION
Туре:	Immediate
Format:	AT [cmds] #REV? [cmds]
Description:	Displays the revision level of the modem's chipset.

	ERROR CORRECTION
Туре:	Configuration
Format:	AT [cmds] \N <i>n</i> [cmds]
Description:	Selects whether the modem will use V.42 error correction.
Command	Function
\N0	Error correction disabled.
í ∖N1	Error correction enabled.

	HOOK CONTROL
Type:	Immediate
Format:	AT [cmds] H <i>n</i> [cmds]
Description:	Commands the modem to change the state of the hook relay.
Command	Function
ЦО	
HO	Modem commanded to go on-hook (hang up).
H0 H1	Modem commanded to go on-hook (hang up).   Modem commanded to go off-hook (pick up).   Modem commanded to go on-hook (hang up) and clear buffers.

	LINE SPEED
Туре:	Register
Format:	AT [cmds] S37= <i>n</i> [cmds]
Description:	Sets the maximum allowable data exchange rate attempted during the handshaking
-	process.
Command	Function
í S37=0	Attempt to connect at speed of last AT command.
S37=1	Set speed to 33.6Kbps.
S37=2	Set speed to 33.6Kbps.
S37=3	Set speed to 33.6Kbps.
S37=4	Set speed to 33.6Kbps.
S37=5	Set speed to 33.6Kbps.
S37=6	Set speed to 2400bps.
S37=7	Set speed to 4800bps.
S37=8	Set speed to 7200bps.
S37=9	Set speed to 9600bps.
S37=10	Set speed to 12Kbps.
S37=11	Set speed to 14.4Kbps.
S37=12	Set speed to 16.8Kbps.
S37=13	Set speed to 19.2Kbps.
S37=14	Set speed to 21.6Kbps.

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LINE SPEED (CON'T)		
Command	Function	
S37=15	Set speed to 24Kbps.	
S37=16	Set speed to 26.4Kbps.	
S37=17	Set speed to 28.8Kbps.	
S37=18	Set speed to 31.2Kbps.	
S37=19	Set speed to 33.6Kbps.	

	MODE SELECTION	
Туре:	Type: Immediate	
Format:	AT [cmds] #CLS=n [cmds]	
Description:	Selects which mode the modem will operate in.	
	Function	
Command	Function	
Command #CLS=0	Function     Modem will operate in data mode.	

ON-LINE		
Type:	Immediate	
Format:	AT [cmds] On	
Description:	n: Instructs the modem to return to on-line state.	
Command	d Function	
00	Return to on-line state.	
01	Return to on-line state and initiate retrain sequence.	
O3	Return to on-line state and initiate V.32bis rate negotiation sequence.	

	SPEAKERPHONE OPTIONS	
Туре:	Configuration	
Format:	t: AT [cmds] #SPK=x,y,z [cmds]	
Description:	Sets various options for speakerphone functions. The z parameter has no function.	
Command	Function	
x=0	Microphone enabled.	
x=1	Microphone disabled.	
<i>y</i> =0 - 5	y=0 - 5 Speaker set to low volume setting.	
<i>y</i> =6 - 9	<i>y</i> =6 - 9 Speaker set to medium volume setting.	
<i>y</i> =10 - 15	Speaker set to highest volume setting.	

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	TONE DETECTION		
	AT [cmds] #VTD=x,y,z [cmds]		
	<i>x,y,z</i> 63		
	0 - 63		
	Sets which tones the tone detection	n will re	port.
	The value of x sets the tone detect	ion mod	les in voice transmit mode, y sets the
	voice command mode.		
Value			Function
0	DTMF tones are not detected.		
í 1	DTMF tones are detected.		
		0	V.25 1300Hz calling tone is not dete
		í 1	V.25 1300Hz calling tone is detected
		0	T.30 1100Hz fax tone is not detecte
		í 1	T.30 1100Hz fax tone is detected.
		0	V.25/T.30 2100Hz answer tone is n
		í 1	V.25/T.30 2100Hz answer tone is d
		0	Bell 2225Hz answer tone is not dete
		í 1	Bell 2225Hz answer tone is detecte
		0	Call progress tones are not detected
		í 1	Call progress tones are detected.

	TONE GENERATOR - DTMF
Туре:	Immediate
Format:	AT [cmds] #VTS={x}
Description:	Generates the DTMF tone indicated for 75mS. The curly braces are optional

	TONE GENERATOR - 2KHz	
Туре:	Immediate	
Format:	AT [cmds] #VTS=[ <i>n</i> ]	
Description:	Generates a 2KHz tone for 300mS. The value of <i>n</i> does not matter.	
Note:	The brackets are not optional.	

	VOICE DEVICE	
Туре:	Configuration	
Format:	AT [cmds] #VLS=n [cmds]	
Description:	Selects the I/O device for the DSP chip.	
Command	Function	
í #VLS=0	Telephone line and handset used for voice I/O.	
#VLS=1	Telephone handset used for voice I/O.	
#VLS=2	Internal speaker only used for voice I/O.	
#VLS=3	External microphone only used for voice I/O.	
#VLS=4	Telephone line and handset used for voice I/O; internal speaker enabled.	
#VLS=6	Speakerphone used for voice I/O.	
#VLS=7	Handset muted by disconnecting handset or speakerphone from telephone line.	

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	VOICE RECEIVE
Туре:	Immediate
Format:	AT [cmds] #VRX
Description:	Commands the modem to begin receiving voice data.

	VOICE SAMPLE QUALITY	
Туре:	Configuration	
Format:	AT [cmds] #VBS= <i>n</i> [cmds]	
Description:	Selects the number of bits per sample that the modem records.	
Note:	This modem may not support all options listed below. The #VBS? command will display the available options.	
Command	Function	
#VBS=2	Modem records 2 bits per sample in ADPCM encoding.	
#VBS=8	Modem records 8 bits per sample in mu-law encoding.	
#VBS=9	Modem records 8 bits per sample in IMA linear unsigned encoding.	

	VOICE TRANSMIT
Type:	Immediate
Format:	AT [cmds] #VTX
Description:	Commands the modem to begin transmitting voice data.