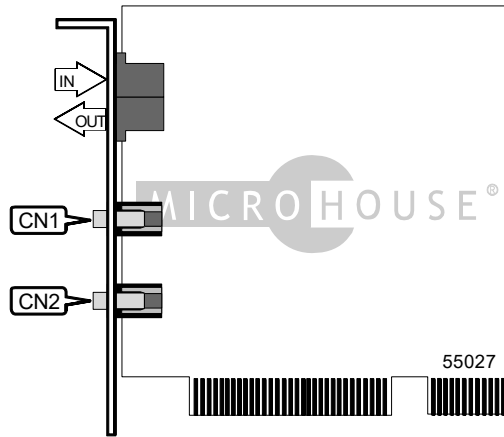


BOCA RESEARCH, INC. BOCA WINSTORM 56K PCI MODEM

Card Type Modem, Fax
Chip Set Unidentified
I/O Options microphone, speaker out
Maximum Modem Rate 56Kbps
Maximum Fax Rate 14.4Kbps
Data Modulation Protocol Bell 103A/212A
 ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis, V.34, V.90, K56 flex
Fax Modulation Protocol ITU-T V.17, V.21CH2, V.27ter, V.29
Error Correction/Compression MNP2-4, MNP5, V.42, V.42bis
Fax Class Class I & II
Data Bus 32-bit PCI
Card Size Half-length, half-height card



CONNECTIONS			
Function	Label	Function	Label
Microphone	CN1	Speaker out	CN2

SUPPORTED COMMAND SET
Basic AT Commands
AT, A/
A, E, H, L, M, O, Q, S, T, V, X, Z
&C, &F, &P, &V
Extended AT Commands
%Q
S Registers
S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12
Special Commands
+MS
Note: See MHI Help File for full command documentation.

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Proprietary AT Command Set

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"WXY"	Optional method of denoting telephone numbers. Letters enclosed in quotes are interpreted as numbers according to the system found on a telephone keypad.
D!	Flash function initiated. Modem commanded to go off-hook for specified time before returning on-hook.
D&	Wait for credit card bong before continuing with the dial string
D^	Toggles calling tone enable/disable
D@	Wait for Quiet 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\$	Wait for prompt tone detection function enabled. Waits for prompt tone for amount of time specified by the S7 command.
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
I0	Reports modem model and speed
I1	Reports ROM checksum
I2	Tests and reports ROM checksum
I3	Unidentified
I4	Unidentified
I5	Unidentified
I6	Reports data connection information
I7	Reports manufacturer and model information

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DATA TERMINAL READY (DTR)	
Type:	Configuration
Format:	AT [cmds] &Dn [cmds]
Description:	Selects modem response to DTR
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.

GUARD TONE	
Type:	Configuration
Format:	AT [cmds] &Gn [cmds]
Description:	Commands the modem to transmit a guard tone in V.22/V.22bis
Note:	Used primarily for international data transmission
Command	Function
í &G0	Guard tone disabled
&G1	Guard tone disabled
&G2	1800Hz guard tone enabled

STORE ACTIVE PROFILE	
Type:	Configuration
Format:	AT [cmds] &Wn [cmds]
Description:	Writes the values for the active profile into the non-volatile RAM

Extended AT Commands

AUTO-RETRAIN - AUTO-FALLBACK/FALL-FORWARD	
Type:	Configuration
Format:	AT [cmds] %En [cmds]
Description:	Controls auto-retrain mode and fallback/fall-forward
Command	Function
%E0	Auto-retrain disabled
%E1	Auto-retrain enabled

DSVD	
Type:	Configuration
Format:	AT [cmds] -SSEn [cmds]
Description:	Controls the DSVD
Command	Function
-SSE0	Disabled
-SSE1	Enabled

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Special AT Commands

DATA COMPRESSION	
Type:	Configuration
Format:	AT [cmds] +DS <i>n,m,o,p</i> [cmds]
Description:	Controls the data compression
Command	Function
<i>n</i> =0	Negotiated; no compression
<i>n</i> =1	Data compression both directions, accept any direction
<i>m</i> =0	Do not disconnect if V.42bis is not negotiated by the remote modem as specified in <i>n</i>
<i>o</i>	Specifies the maximum number of dictionary entries (2048 entries) which should be negotiated
<i>p</i>	Specifies the maximum string length (32bytes) to be negotiated

ERROR CONTROL REPORTING	
Type:	Configuration
Format:	AT [cmds] +Er <i>n</i> [cmds]
Description:	Controls the whether or not the extended-format intermediate result code is transmitted from the modem to the DTE
Command	Function
+ER0	Disabled
+ER1	Enabled

LOCAL FLOW CONTROL	
Type:	Configuration
Format:	AT [cmds] +IFC <i>n</i> [cmds]
Description:	Controls the modem local flow control
Command	Function
+IFC0	No flow control
+IFC1	XON/XOFF on transmitted data
+IFC2	Circuit 133
+IFC3	XON/XOFF on transmitted data with XON/XOFF characters being passed through to the remote modem.

LOCAL RATE REPORTING	
Type:	Configuration
Format:	AT [cmds] +ILRR <i>n</i> [cmds]
Description:	Controls whether or not the extended-format information text is transmitted from the modem to the DTE
Command	Function
+ILRR0	Disabled
+ILRR1	Enabled

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MANUFACTURER IDENTIFICATION	
Type:	Configuration
Format:	AT [cmds] +GMI <i>n</i> [cmds]
Description:	Reports the modem manufacturer

MODEL IDENTIFICATION	
Type:	Configuration
Format:	AT [cmds] +GMM <i>n</i> [cmds]
Description:	Reports the modem model identification

MODULATION REPORTING	
Type:	Configuration
Format:	AT [cmds] +MR <i>n</i> [cmds]
Description:	Controls the modulation reporting
Command	Function
+MR0	Disabled
+MR1	Enabled

REVISION IDENTIFICATION	
Type:	Configuration
Format:	AT [cmds] +GMR <i>n</i> [cmds]
Description:	Reports the modem version, revision level, or date.

VIDEO READY MODE	
Type:	Configuration
Format:	AT [cmds] +H <i>n</i> [cmds]
Description:	Controls the video ready mode
Command	Function
+H0	Disable video ready mode
+H16	Enabled video ready mode

S(status) -REGISTERS

FLASH DIAL MODIFIER TIME	
Type:	Register
Format	AT [cmds] S29= <i>n</i> [cmds]
Default:	70
Range:	0-255
Unit:	.01 second
Description:	Time the modem will go on-hook upon receiving the ! dial modifier in dial string.