DIAMOND MULTIMEDIA SYSTEMS, INC.
SUPRAEXPRESS 288I SP

Card Type	Modem, Fax
Chip Set	Unidentified
I/O Options	Speaker out, microphone, RJ-11 (2)
Maximum Modem Rate	28.8Kbps
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.Fast
Fax Modulation Protocol	ITU-T V.17, V.27ter, V.29, Unidentified
Error Correction/Compression	MNP10,MNP5, V.42, V.42bis, Unidentified
Fax Class	Class I
Data Bus	16-bit ISA
Card Size	Half-length, half-height card
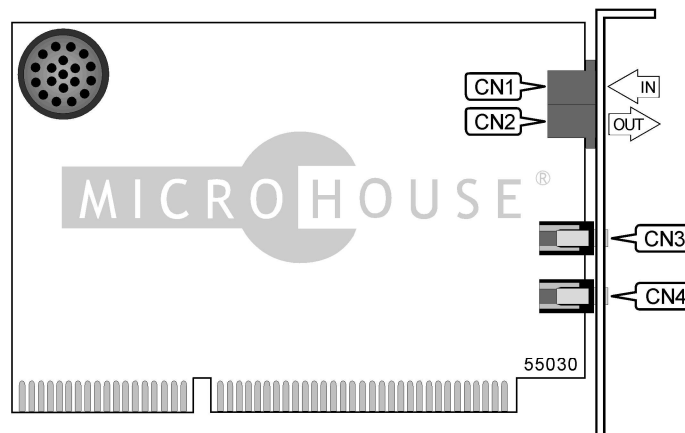
CONNECTIONS			
Function	**Label**	**Function**	**Label**
Line in	CN1	Speaker out	CN3
Line out	CN2	Microphone	CN4

SUPPORTED COMMAND SET
Basic AT Commands
AT, '+++', A/
A, B, D, E, H, M, O, Q, V, W, X,
&C, &V
Extended AT Commands
%C, %G
S Registers
S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S25, S36, S38
Special Commands
+MS
Note: See MHI Help File for full command documentation.

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Proprietary AT Command Set

AUTO-MODE DETECTION	
Type:	Configuration
Format:	AT [cmds] N*n* [cmds]
Description:	Selects various options for the automatic detection and negotiation of protocols during the handshake process if the modem is communicating with a remote modem of dissimilar speed.
Command	**Function**
N0	Auto-mode detection disabled
í N1	In originate mode, handshake begins at line speed designated by the S37 register. Modem can shift to a slower speed if necessary. In answer mode, handshake attempted with the following protocols in order - V.FC, V.32bis, V.32, V.22bis, V.22 or Bell 212, V.21, and Bell 103

COMMUNICATIONS MODE	
Type:	Configuration
Format:	AT [cmds] &Q*n* [cmds]
Description:	Selects communications mode options
Command	**Mode**
í &Q0	Asynchronous mode, serial port speed follows connect speed.
&Q5	Error correction mode

DATA TERMINAL READY (DTR)	
Type:	Configuration
Format:	AT [cmds] &D*n* [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.
&D3	Modem is initialized after DTR goes off

FACTORY DEFAULT PROFILE	
Type:	Configuration
Format:	AT [cmds] &F [cmds]
Description:	Sets values in active profile to values found in the default profile
Command	**Function**
&F0	Direct mode, no flow control
í &F2	Reliable mode, flow control enabled

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FLOW CONTROL	
Type:	Configuration
Format:	AT [cmds] &K*n* [cmds]
Description:	Enables flow control options

Command	Function
&K0	Flow control disabled
í &K3	RTS/CTS flow control enabled
&K4	XON/XOFF flow control enabled
&K5	Transparent XON/XOFF flow control enabled

REPORT INFORMATION	
Type:	Immediate
Format:	AT [cmds] I*n* [cmds]
Description:	Displays information requested

Command	Function
I0	Reports product code ID
I1	Reports ROM checksum
I2	Tests and reports ROM checksum
I3	Reports ROM code revision number
I4	Reports supported protocols in encrypted format
I5	Reports firmware copyright information
I7	Reports data pump model
I10	Reports optional features supported by the modem

SPEAKER VOLUME	
Type:	Configuration
Format:	AT [cmds] L*n* [cmds]
Description:	Controls speaker volume

Command	Function
L0	Low volume setting
í L2	Medium volume setting
L3	Highest volume setting

Extended AT Commands

CONNECT MODE	
Type:	Configuration
Format:	AT [cmds] \N*n* [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

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REQUEST A RETRAIN	
Type:	Configuration
Format:	AT [cmds] %E*n* [cmds]
Description:	Controls the retrain request
Command	**Function**
%E0	Do not request a retrain
%E1	Request a retrain

S(status) -REGISTERS

CONNECTION FAILURE CODES	
Type:	Register
Format	AT [cmds] S86? [cmds]
Description:	Reports codes which correspond to the possible causes of a connection failure
Value	**Meaning**
0	Normal hang up
4	Carrier signal lost
5	No error-control detected for remote modem during feature negotiation
9	No common protocol found
12	No failure - remote modem disconnected normally
13	Remote modem failed to respond after 10 re-transmissions same message
14	Violation of negotiated protocol caused failure

DCE LINE SPEED	
Type:	Register
Format	AT [cmds] S37=*n* [cmds]
Description:	Sets the maximum allowable data exchange rate attempted during handshake process.
Command	**Function**
í S37=0	Speed of last connection
S37=1	300bps
S37=5	1200bps
S37=6	2400bps
S37=8	4800bps
S37=9	9600bps
S37=10	12000bps
S37=11	14400bps
S37=12	7200bps

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ERROR CORRECTION/COMPRESSION	
Type:	Register
Format:	AT [cmds] S46=*n* [cmds]
Default:	136, 138
Range:	138
Description:	Selects active error correction and compression protocols
Command	**Function**
S46=136	Active error correction and compression protocols disabled
S46=138	Active error correction and compression protocols enabled

EXTENDED RESULT CODES		
Type:	Register	
Format	AT [cmds] S95=*n* [cmds]	
Range:	0-255	
Unit:	Bit-mapped	
Description:	Works in combination with the W*n* command to enable extended result codes. Features enabled by S95 take precedence over the options selected by W*n*.	
Bit	**Value**	**Function**
0	0	CONNECT result code reports DTE speed.
	1	CONNECT result code reports line speed instead DTE speed.
1	0	Verbose CONNECT result codes display DTE or line speed only.
	1	Adds "/ARQ" to all verbose CONNECT result codes except "NONE."
2	0	CARRIER result codes disabled.
	1	CARRIER result codes enabled.
3 - 4	0	Reserved
5	0	COMPRESSION result codes disabled.
	1	COMPRESSION result codes enabled.

FEATURE NEGOTIATION OPTIONS	
Type:	Register
Format:	AT [cmds] S48=*n* [cmds]
Description:	Selects active error correction and compression protocols
Command	**Function**
S48=0	Detection negotiation disabled, XID negotiation disabled
í S48=7	Detection negotiation and XID negotiation enabled
S48=128	Fall-back to options set in S36