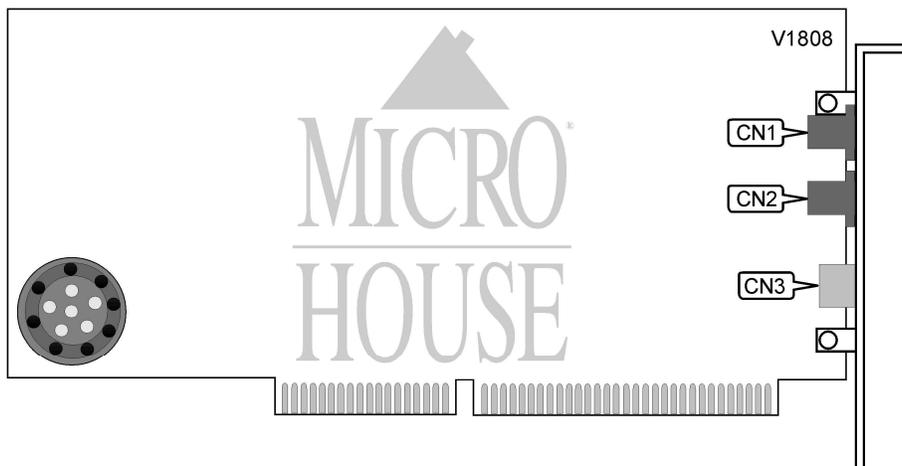


PURE DATA, LTD. SATISFAXTION MODEM/200

Card Type	Modem(asynchronous)
Chip Set	Intel
Maximum Data Rate	2400bps
Maximum Fax Rate	9600bps
Data Bus	16 bit ISA
Fax Class	Class I & II
Data Modulation Protocol	Bell 103A/212A ITU-T V.21, V.22, V.22bis
Fax Modulation Protocol	Unidentified
Error Correction/Compression	MNP5, V.42, V.42bis



CONNECTIONS			
Function	Label	Function	Label
Line in	CN1	Unidentified	CN3
Line out	CN2		

Proprietary AT Command Set

ACCEPT RELIABLE CONNECTION	
Type:	Configuration
Format:	AT [cmds] \U [cmds]
Description:	Accepts remote modem's request for MNP reliable link.

AUTO-RELIABLE FALLBACK CHARACTER	
Type:	Configuration
Format:	AT [cmds] %An [cmds]
Default:	19
Range:	0-127
Unit:	ASCII
Description:	Sets the character used as the auto-reliable fallback character

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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
í \CO	Disabled
\C1	Enable 200 character buffer. If 200 characters received without reliable character, establish normal connection
\C2	Auto reliable buffer disabled. Establish normal connection on receipt of escape character

BIT-MAPPED REGISTER S14		
Format	AT [cmds] S14=n [cmds]	
Default:	138	
Range:	0-174	
Unit:	Bit-mapped	
Description:	Controls echo, result codes, result code display, dial mode, and answer/originate mode	
Bit	Value	Function
0	0	Not used
1	0	Command echo disabled
	í 1	Command echo enabled
2	í 0	Result codes enabled
	1	Result codes disabled
3	0	Display result codes in numeric format
	í 1	Display result codes in verbose format
4	0	Not used
5	í 0	Tone dial enabled
	1	Pulse dial enabled
6	0	Not used
7	0	Answer mode enabled
	í 1	Originate mode enabled

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BIT-MAPPED REGISTER S21		
Format	AT [cmds] S21= <i>n</i> [cmds]	
Default:	48	
Range:	0 - 254	
Unit:	Bit-mapped	
Description:	Controls S23, CTS action, DTR action, DCD action, DSR action and the Long Space Disconnect function.	
Bit	Value	Function
0	0	Not used
1	0	Option 1 for bits 1, 2 and 3 of S32 enabled
	1	Option 2 for bits 1, 2 and 3 of S23 enabled
2	0	CTS signal normal
	1	CTS signal forced high
4, 3	00	DTR signal ignored
	01	Modem goes to command mode on low DTR
	10	Modem disconnects on low DTR. Auto-Answer is disabled
	11	Modem is initialized on low DTR
5	0	DCD signal forced high
	1	DCD signal normal
6	0	DSR signal forced high
	1	DSR signal normal
7	0	Long Space Disconnect function disabled
	1	Long Space Disconnect function enabled

BIT-MAPPED REGISTER S22		
Format	AT [cmds] S22= <i>n</i> [cmds]	
Default:	118	
Range:	0-255	
Unit:	Bit-mapped	
Description:	Controls speaker, result codes and make/break ratio	
Bit	Value	Function
1, 0	00	Off volume
	01	On volume
	10	Medium level volume
	11	High level volume
3, 2	00	Speaker off
	01	Speaker off on carrier
	10	Speaker always on
	11	Speaker on during handshake
6, 5, 4	000	Blind dial and basic result codes only enabled
	100	Blind dial and basic and connection speed result codes enabled
	101	Blind dial and basic and connection speed result codes and dialtone detection enabled
	110	Blind dial, basic and connection speed result codes and dialtone detection enabled
	111	Blind dial, basic and connection speed result codes, busy and dialtone detection enabled
7	0	Make/Break pulse ratio at 39/61
	1	Make/Break pulse ration at 33/67

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BIT-MAPPED REGISTER S23		
Format	AT [cmds] S23= <i>n</i> [cmds]	
Default:	Unidentified	
Range:	0-191	
Unit:	Bit-mapped	
Description:	Grants/denies remote digital loopback, controls DTE rate and parity, and sets guard tone	
Note: See S21 bit one to set option 1 and 2		
Bit	Value	Function
0	0	Remote digital loopback ignored
	1	Remote digital loopback accepted
Option 1 (bit 1 of S21 = 0)		
3, 2, 1	000	Sets serial port speed to 0-300bps
	001	Sets serial port speed to 1200bps
	010	Sets serial port speed to 2400bps
	011	Sets serial port speed to 4800bps
	101	Sets serial port speed to 9600bps
	110	Sets serial port speed to 19.2Kbps
	111	Sets serial port speed to 38.4Kbps
Option 2 (bit 1 of S21 = 1)		
3, 2, 1	000	Sets serial port speed to 12.0Kbps
	001	Sets serial port speed to 14.4Kbps
	010	Sets serial port speed to 57.6Kbps
5,4	00	Parity even
	01	Parity space/no parity
	10	Parity odd
	11	Parity mark
7, 6	00	Guard tone disabled
	01	550Hz guard tone enabled
	10	1800Hz guard tone enabled

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BIT-MAPPED REGISTER S27		
Format	AT [cmds] S27= <i>n</i> [cmds]	
Default:	73	
Range:	0 - 255	
Unit:	Bit-mapped	
Description:	Controls communications mode, line type, and protocol type	
Bit	Value	Function
0	0	Not used
1	0	Not used
7, 2	i00	Switched line
	01	Leased line
	10	Not used
	11	Leased line
3	0	Not used
4	0	Not used
5	0	Not used
6	i 0	Select CCITT protocols
	1	Select Bell protocols

BREAK SEND	
Type	Configuration
Format	AT [cmds] \B <i>n</i> [cmds]
Default	3
Range	1 -9
Unit	.1 second
Description	Sends break of <i>n</i>

BREAK TYPE			
Type:	Configuration		
Format:	AT [cmds] \K <i>n</i> [cmds]		
Description:	Configures action of break signal		
Comm and	Break from DTE	Break from DTE while in command mode	Break from remote modem
\K0	Enter command mode, do not send break to remote modem	Buffers cleared and break sent to remote modem	Buffers cleared and break sent to remote modem
\K1	Buffers cleared and break sent to remote modem	Buffers cleared and break sent to remote modem	Buffers cleared and break sent to remote modem
\K2	Enter command mode, do not send break to remote modem	Send break to remote modem immediately	Send break to remote modem immediately
\K3	Send break to remote modem immediately	Send break to remote modem immediately	Send break to remote modem immediately
\K4	Enter command mode, do not send break to remote modem	Send break to remote modem with transmitted data	Send break to remote modem with transmitted data
i \K5	Send break with transmitted data	Send break to remote modem with transmitted data	Send break to remote modem with transmitted data

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COMPRESSION	
Type:	Configuration
Format:	AT %Cn
Description:	Selects MNP5 data compression
Command	Function
%C0	Data compression disabled
í %C1	Data compression enabled

CONNECT MODE	
Type:	Configuration
Format:	AT [cmds] \Nn [cmds]
Description:	Sets connect mode
Command	Function
\N0	Normal mode enabled
\N2	MNP mode enabled
\N3	LAPM mode enabled
í \N4	LAPM mode 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	Bidirectional XON/XOFF flow control enabled
\Q2	CTS flow control by DCE enabled
í \Q3	Bidirectional CTS/RTS flow control enabled
\Q4	XON/XOFF flow control by DCE enabled
\Q5	CTS flow control by DCE enabled. CTS low until connection established
\Q6	Bidirectional CTS/RTS flow control enabled. CTS low until connection established

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INACTIVITY TIMER	
Type:	Configuration
Format:	AT [cmds] \Tn [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

LOCK SERIAL PORT	
Type:	Configuration
Format:	AT [cmds] \Jn [cmds]
Description:	Sets operation of serial port speed
Command	Function
í \J0	Serial speed locked
\J1	Serial speed follows connect speed

LOOPBACK TESTS		
Format	AT [cmds] S16=n [cmds]	
Default:	0	
Range:	0 - 125	
Unit:	Bit-mapped	
Description:	Enables loopback tests	
Bit	Value	Function
0	í 0	Local analog loopback test disabled
	1	Local analog loopback test enabled
1	0	Not used
2	í 0	Local digital loopback test disabled
	1	Local digital loopback test enabled
3	í 0	Modem is not performing remotely requested remote digital loopback test
	1	Modem is performing remotely requested remote digital loopback test
4	í 0	Modem is not performing locally requested remote digital loopback test
	1	Modem is performing locally requested remote digital loopback test
5	í 0	Remote digital loopback with local self-test disabled
	1	Remote digital loopback with local self-test enabled
6	í 0	Local analog loopback with local self-test disabled
	1	Local analog loopback with local self-test enabled

MAXIMUM BLOCK SIZE FOR TRANSMISSION	
Type:	Configuration
Format:	AT [cmds] \An [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

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MNP STREAM/BLOCK MODE	
Type:	Configuration
Format:	AT [cmds] \Ln [cmds]
Description:	Selects the transfer mode for MNP
Command	Function
í \L0	Stream mode for MNP enabled
\L1	Block mode for MNP enabled

RESULT CODE FORMAT	
Type:	Configuration
Format:	AT [cmds] \Vn [cmds]
Description:	Selects format for information-text and result codes
Command	Function
V0	Numeric format enabled
V1	Verbose (word) format enabled

SWITCH TO NORMAL MODE	
Type:	Configuration
Format:	AT [cmds] \Z [cmds]
Description:	Switches to normal mode from MNP mode

TEST TIME LIMIT	
Type	Configuration
Format	AT [cmds] S18=n [cmds]
Default	0
Range	0 - 255
Unit	1 second
Description	Limits time allowed for diagnostic test

V.42 DETECTION PHASE	
Type:	Configuration
Format:	AT [cmds] -Jn [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] "Hn [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

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V.42bis MAXIMUM STRING LENGTH	
Type:	Configuration
Format:	AT [cmds] "O=n [cmds]
Default:	250
Range:	6 -250
Unit:	Unidentified
Description:	Selects string size for V.42bis compression

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