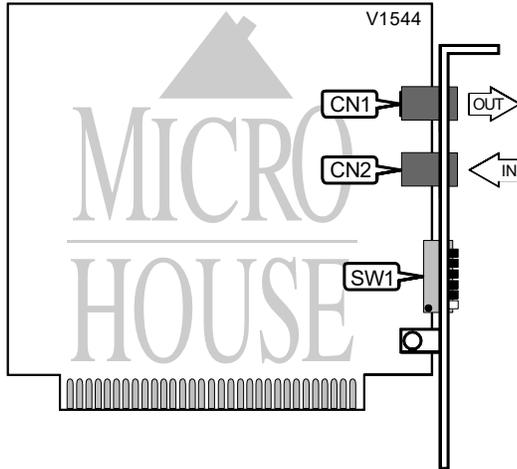


PUREDATA, LTD.
SATISFAXTION MODEM/300

Modem Type Data (asynchronous)/Fax
Maximum Data Rate 14.4Kbps
Maximum Fax Rate 9600bps
Data Bus 8-bit ISA
Fax Class Class I
Data Modulation Protocol Bell 103A/212A
 ITU-T V.22, V.22bis, V.32, V.32bis
Fax Modulation Protocol ITU-T V.27ter, V.29
Error Correction/Compression MNP5, V.42, V.42bis



CONNECTIONS			
Purpos	Location	Purpos	Location
Line out	CN1	Line in	CN2

BASE I/O ADDRESS SELECTION			
Port	SW1//	SW1/è	SW1/è
COM1: (3F8h)	On	On	On
COM2: (2F8h)	Off	On	On
COM3: (3E8h)	On	Off	Off
COM4: (2E8h)	Off	Off	Off

INTERRUPT SELECTION				
IRQ	SW1/C	SW1/D	SW1/E	SW1/F
2	On	Off	Off	Off
3	Off	On	Off	Off
4	Off	Off	On	Off
5	Off	Off	Off	On

Continued on next page . . .

Proprietary AT Command Set

ACCEPT RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \Un
Example:	AT \U<CR>
Description:	Accepts remote modem's request for reliable link.

AUTO-RETRAIN - FALLBACK/FALLFORWARD	
Type:	Configuration
Format:	AT [cmds] %En [cmds]
Example:	AT %E1 <CR>
Description:	Controls auto-retrain mode and fallback/fall forward.
Command	Function
%E0	Auto-retrain disabled.
í %E1	Auto-retrain enabled.
%E2	Fallback/fall forward enabled.

BIT-MAPPED REGISTER S14		
Format	AT [cmds] S14? [cmds]	
Example:	ATS14?<CR>	
Default:	Read only	
Range:	0-255	
Unit:	Bit-mapped.	
Description:	Displays echo, result codes, result code display, dial mode, and answer/originate mode.	
Bit	Value	Function
0	1	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.

PUREDATA, LTD.
SATISFAXTION MODEM/300

...continued from previous page

BIT-MAPPED REGISTER S21		
Format	AT [cmds] S21? [cmds]	
Example:	ATS21?<CR>	
Default:	Read only	
Range:	0 - 255	
Unit:	Bit-mapped	
Description:	Displays low DTR action, DCD signal, DSR signal, and the Long Space Disconnect function.	
Bit	Value	Function
2 - 0	010	Not used.
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 forced high.
	1	DCD normal.
6	0	DSR forced high.
	1	DSR normal.
7	0	Long Space Disconnect function disabled.
	1	Long Space Disconnect function enabled.

BIT-MAPPED REGISTER S22		
Format	AT [cmds] S22? [cmds]	
Example:	AT S22?<CR>	
Default:	Read only	
Range:	0 - 255	
Unit:	Bit-mapped.	
Description:	Displays volume and speaker settings, result codes, and make/break pulse ratio.	
Bit	Value	Function
1, 0	00	Lowest volume setting.
	01	Low volume setting.
	10	Medium volume setting.
	11	Highest volume setting.
3, 2	00	Speaker disabled.
	01	Speaker enabled until carrier signal detected.
	10	Speaker enabled.
	11	Speaker enabled following dialing, then disabled after carrier signal detected.
6, 5, 4	000	Busy and dialtone detection disabled, result codes 0-4 enabled.
	100	Busy and dialtone detection disabled, result codes 0-5, 10 enabled.
	101	Busy tone detection disabled, dialtone detection enabled, result codes 0-6, 10 enabled.
	110	Busy tone detection enabled, dialtone detection disabled, result codes 0-5, 7, 10 enabled.
	111	Busy and dialtone detection enabled, result codes 0-7, 10 enabled.
7	0	39/61ms at 10pps (North America)
	1	33/67ms at 10pps (Europe)

Continued on next page . . .

PUREDATA, LTD.
SATISFACTION MODEM/300

...continued from previous page

BIT-MAPPED REGISTER S23		
Format	AT [cmds] S23? [cmds]	
Example:	ATS23?<CR>	
Default:	Read only	
Range:	0-255	
Unit:	Bit-mapped	
Description:	Displays DTE rate and parity.	
Bit	Value	Function
0	1	Not used.
3, 2, 1	000	Sets serial port speed to 0-300bps.
	001	Sets serial port speed to 600bps.
	010	Sets serial port speed to 1200bps.
	011	Sets serial port speed to 2400bps.
	100	Sets serial port speed to 4800bps.
	101	Sets serial port speed to 9600bps.
	110	Sets serial port speed to 19200bps.
5, 4	100	Parity even.
	10	Parity odd.
7, 6	0	Not used.

BIT-MAPPED REGISTER S27		
Format	AT [cmds] S27? [cmds]	
Example:	ATS27?<CR>	
Default:	Read only	
Range:	0 - 255	
Unit:	Bit-mapped	
Description:	Displays protocol type.	
Bit	Value	Function
1 - 0	0	Not used.
5 - 3	0	Not used.
6	0	Select CCITT protocols.
	1	Select Bell protocols.
7, 2	0	Not used.

BREAK SEND	
Type:	Configuration
Format:	AT [cmds] \Bn [cmds]
Example:	AT \B3 &W<CR>
Default:	3
Range:	1-9
Unit:	.1 second
Description:	Sends break to modem.

Continued on next page . . .

PUREDATA, LTD.
SATISFAXTION MODEM/300

...continued from previous page

BREAK TYPE			
Type:		Configuration	
Format:		AT [cmds] \Kn [cmds]	
Example:		AT \K1 <CR>	
Description:		Configures action of break signal.	
Command	Break from DTE	Break from remote modem	Modem receives \B
\K0	Enter command mode, do not send break to remote modem.	Buffers cleared and break sent to DTE.	Send break to remote modem immediately, then enter command mode.
\K1	Buffers cleared and break sent to remote modem.	Buffers cleared and break sent to DTE.	Send break to remote modem immediately.
\K2	Enter command mode, do not send break to remote modem.	Send break to DTE immediately.	Send break to remote modem immediately, then enter command mode.
\K3	Send break to remote modem immediately.	Send break to DTE immediately.	Send break to remote modem immediately.
\K4	Enter command mode, do not send break to remote modem.	Break sent with received data to the DTE.	Send break to remote modem immediately, then enter command mode.
f \K5	Send break with transmitted data.	Break sent with received data to the DTE.	Send break to remote modem immediately.

COMPRESSION	
Type: Configuration	
Format: AT %Cn	
Example: AT *EC0 %C1 *AP0<CR>	
Description: Selects data compression.	
Command	Function
%C0	Data compression disabled.
f %C1	Data compression enabled.

CONNECT MODE	
Type: Configuration	
Format: AT [cmds] \Nn [cmds]	
Example: AT \N1 DT555-1212<CR>	
Description: Sets connect mode.	
Command	Function
\N0	Normal mode enabled.
\N1	Diagnostic mode, select this before selecting &T commands.
\N2	Reliable mode enabled.
f \N3	Auto-reliable mode enabled.
\N4	LAPM mode enabled.

Continued on next page . . .

PUREDATA, LTD.
SATISFAXTION MODEM/300

...continued from previous page

CONVERT TO RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \Y [cmds]
Example:	AT \Y<CR>
Description:	Initiates reliable mode link.

EXTENDED RESULT CODES	
Type:	Configuration
Format:	AT [cmds] \Vn [cmds]
Example:	AT \V1 %C1<CR>
Description:	Selects extended result codes.
Command	Function
\V0	Extended result codes disabled.
\V1	Reliable result codes enabled.
f \V2	Error correction and compression result codes enabled.
\V3	DTE speed result codes enabled.

FLOW CONTROL TYPE	
Type:	Configuration
Format:	AT [cmds] \Qn [cmds]
Example:	AT \Q3 A <CR>
Description:	Sets type of flow control used by modem.
Command	Function
\Q0	Flow control disabled.
\Q1	XON/XOFF flow control enabled.
f \Q3	RTS/CTS flow control enabled.

INACTIVITY TIMER	
Type:	Configuration
Format:	AT [cmds] \Tn [cmds]
Example:	AT \T5<CR>
Default:	0
Range:	0-42
Unit:	1 minute
Description:	Sets the length of time that the modem does not receive information before it disconnects.

Continued on next page . . .

PUREDATA, LTD.
SATISFACTION MODEM/300

...continued from previous page

MAXIMUM BLOCK SIZE FOR TRANSMISSION	
Type:	Configuration
Format:	AT [cmds] \An [cmds]
Example:	AT \A3 &MB28800<CR>
Description:	Sets the maximum transmittable block size.
Command	Function
\A0	Maximum MNP block size is 64 characters.
\A1	Maximum MNP block size is 128 characters.
í \A2	Maximum MNP block size is 192 characters.
\A3	Maximum MNP block size is 256 characters.

ON-LINE IN RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \O
Example:	AT \O <CR>
Description:	Returns to on-line and requests reliable mode connection.

PROTOCOL/SPEED	
Type:	Register
Format:	AT [cmds] S31=n [cmds]
Example:	AT S31=0 <CR>
Description:	Selects the maximum DCE speed.
Command	Function
í S31=0	Select last speed at AT command.
S31=3	Select 300bps speed.
S31=5	Select 1200bps speed.
S31=6	Select 2400bps speed.
S31=7	Select 4800bps speed.
S31=8	Select 7200bps speed.
S31=9	Select 9600bps speed.
S31=10	Select 12Kbps speed.
S31=11	Select 14.4Kbps speed.

RETURN TO RELIABLE MODE	
Type:	Immediate
Format:	AT [cmds] \Z [cmds]
Example:	AT \Z <CR>
Description:	Ends reliable mode link, initiate return to normal mode.

Continued on next page . . .

PUREDATA, LTD.
SATISFACTION MODEM/300

...continued from previous page

TEST MODES		
Format	AT [cmds] S16= <i>n</i> [cmds]	
Example:	ATS16=40<CR>	
Default:	0	
Range:	0-125	
Unit:	Bit-mapped	
Description:	Controls loopback tests, analog, digital, remote digital, and self tests.	
Bit	Value	Function
0	í 0	Local analog loopback not in progress.
	1	Local analog loopback in progress.
1	í 0	Not used.
5 - 1	0	Not used.
6	í 0	Local analog loopback w/ self-test not in progress.
	1	Local analog loopback w/ self-test in progress.

V.42bis COMPRESSION CONTROL		
Type:	Configuration	
Format:	AT [cmds] "H <i>n</i> [cmds]	
Example:	AT "H3 &W<CR>	
Description:	Controls V.42bis data compression	
Command	Value	Function
"H0	í 0	V.42bis disabled.
"H1	1	V.42bis when transmitting enabled.
"H2	í 0	V.42bis when receiving enabled.
í "H3	1	V.42bis when transmitting/receiving enabled.

XON/XOFF PASS-THROUGH		
Type:	Configuration	
Format:	AT [cmds] \X <i>n</i> [cmds]	
Example:	AT \X1 O<CR>	
Description:	Selects whether XON/XOFF signals are sent to remote modem.	
Command	Value	Function
í \X0	0	XON/XOFF signals trapped by local modem.
\X1	1	XON/XOFF passed through local modem.