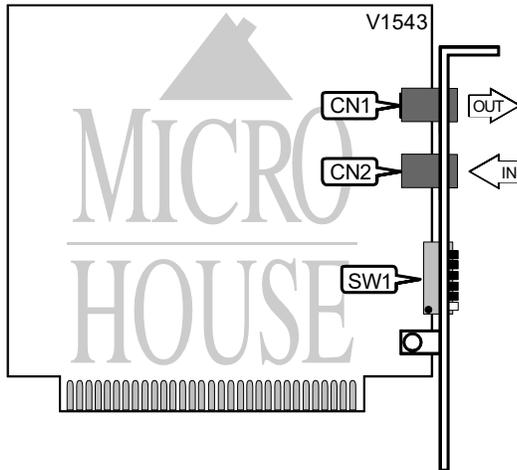


PUREDATA, LTD.  
SATISFACTON MODEM/100

<b>Modem Type</b>	Data (asynchronous)/Fax
<b>Maximum Data Rate</b>	2400bps
<b>Maximum Fax Rate</b>	9600bps
<b>Data Bus</b>	8-bit ISA
<b>Fax Class</b>	Class I
<b>Data Modulation Protocol</b>	Bell 103A/212A
	ITU-T V.22, V.22bis
<b>Fax Modulation Protocol</b>	ITU-T V.27ter, V.29



CONNECTIONS			
Purpos	Location	Purpos	Location
Line out	CN1	Line in	CN2

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

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

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### Proprietary AT Command Set

BIT-MAPPED REGISTER S14		
<b>Format</b>	AT [cmds] S14= <i>n</i> [cmds]	
<b>Example:</b>	ATS14=138<CR>	
<b>Default:</b>	138	
<b>Range:</b>	0-174	
<b>Unit:</b>	Bit-mapped.	
<b>Description:</b>	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.
	1	Command echo enabled.
2	0	Result codes enabled.
	1	Result codes disabled.
3	0	Display result codes in numeric format.
	1	Display result codes in verbose format.
4	0	Not used.
5	0	Tone dial enabled.
	1	Pulse dial enabled.
6	0	Not used.
7	0	Answer mode enabled.
	1	Originate mode enabled.

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SATISFAXTION MODEM/100

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BIT-MAPPED REGISTER S21		
<b>Format</b>	AT [cmds] S21= <i>n</i> [cmds]	
<b>Example:</b>	ATS21=48<CR>	
<b>Default:</b>	48	
<b>Range:</b>	0 - 253	
<b>Unit:</b>	Bit-mapped	
<b>Description:</b>	Selects serial port speed option, CTS signal, low DTR action, DCD signal, DSR signal, and the Long Space Disconnect function.	
<b>Note:</b>	For bit 1 please see bits 1-3 of S23.	
Bit	Value	Function
0	0	Not used.
1	í 0	Select serial speed option 1 (S23).
	1	Select serial speed option 2 (S23).
2	0	CTS follows RTS.
	í 1	CTS forced high.
4, 3	00	DTR signal ignored.
	01	Modem goes to command mode on low DTR.
	í 10	Modem disconnects on low DTR. Auto-Answer is disabled.
	11	Modem is initialized on low DTR.
5	0	DCD forced high.
	í 1	DCD normal.
6	í 0	DSR forced high.
	1	DSR normal.
7	í 0	Long Space Disconnect function disabled.
	1	Long Space Disconnect function enabled.

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BIT-MAPPED REGISTER S22		
<b>Format</b>	AT [cmds] S22= <i>n</i> [cmds]	
<b>Example:</b>	ATS22=118<CR>	
<b>Default:</b>	118	
<b>Range:</b>	0 - 255	
<b>Unit:</b>	Bit-mapped.	
<b>Description:</b>	Controls 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)

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BIT-MAPPED REGISTER S23		
<b>Format</b>	AT [cmds] S23= <i>n</i> [cmds]	
<b>Example:</b>	ATS23=11<CR>	
<b>Default:</b>	11	
<b>Range:</b>	0-255	
<b>Unit:</b>	Bit-mapped	
<b>Description:</b>	Grants/denies remote digital loopback, controls DTE rate and parity, and sets guard tone.	
<b>Note:</b>	Option 1 and 2 in bit 1-3 is selected by S21.	
Bit	Value	Function
0	0	Remote digital loopback denied.
	1	Remote digital loopback allowed.
3, 2, 1	<b>Option 1</b>	
	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 19200bps.
111	Sets serial port speed to 38400bps.	
<b>Option 2</b>		Sets serial port speed to 12Kbps.
		Sets serial port speed to 14.4Kbps.
		Sets serial port speed to 57.6Kbps.
5,4	00	Parity even.
	01	No Parity.
	10	Parity odd.
	11	Mark Parity
7, 6	00	Guard tone disabled.
	10	Guard tone 550Hz enabled.
	11	Guard tone 1800Hz enabled.

BIT-MAPPED REGISTER S27		
<b>Format</b>	AT [cmds] S27= <i>n</i> [cmds]	
<b>Example:</b>	ATS27=64<CR>	
<b>Default:</b>	64	
<b>Range:</b>	0 - 255	
<b>Unit:</b>	Bit-mapped	
<b>Description:</b>	Controls communications mode, line type, and protocol type.	
<b>Note:</b>	Be aware that bits 2 and 3 are out of order.	
Bit	Value	Function
1 - 0	0	Not used.
5 - 3	0	Not used.
6	0	Select CCITT protocols.
	1	Select Bell protocols.
7, 2	00	Switched line.
	01	Leased line.
	11	Leased line autoconnect.

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TEST MODES		
<b>Format</b>	AT [cmds] S16= <i>n</i> [cmds]	
<b>Example:</b>	ATS16=40<CR>	
<b>Default:</b>	0	
<b>Range:</b>	0-125	
<b>Unit:</b>	Bit-mapped	
<b>Description:</b>	Controls loopback tests, analog, digital, remote digital, and self tests.	
Bit	Value	Function
0	0	Local analog loopback not in progress.
	1	Local analog loopback in progress.
1	0	Not used.
2	0	Local digital loopback not in progress.
	1	Local digital loopback in progress.
3	0	Modem not in remote digital loopback.
	1	Remote digital loopback in progress.
4	0	Remote digital loopback not requested.
	1	Remote digital loopback requested.
5	0	Remote digital loopback w/ self-test not in progress.
	1	Remote digital loopback w/ self-test in progress.
6	0	Local analog loopback w/ self-test not in progress.
	1	Local analog loopback w/ self-test in progress.