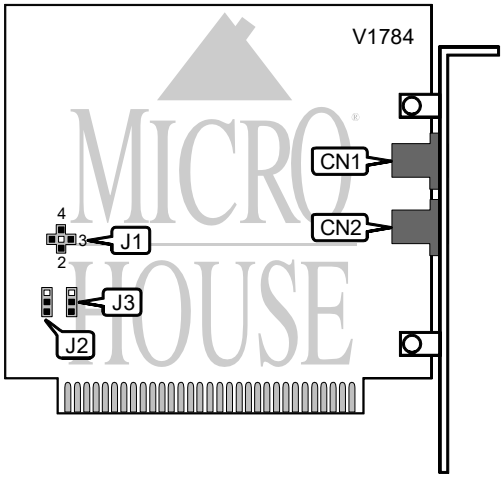
POSITIVE CORPORATION
PC MODEM 2400S

Card Type	Modem(asynchronous)
Chip Set	Unidentified
Maximum Data Rate	2400bps
Data Bus	8 bit ISA
Data Modulation Protocol	Bell 103A/212A ITU-T V.21, V.22, V.22bis



CONNECTIONS			
Function	**Label**	**Function**	**Label**
Line in	CN1	Line out	CN2

SERIAL PORT ADDRESS		
Setting	**J2**	**J3**
í COM1 (3F8h)	Pins 2 & 3 closed	Pins 2 & 3 closed
COM2 (2F8h)	Pins 2 & 3 closed	Pins 1 & 2 closed
COM3 (3E8h)	Pins 1 & 2 closed	Pins 2 & 3 closed
COM4 (2E8h)	Pins 1 & 2 closed	Pins 1 & 2 closed

INTERRUPT	
Setting	**J1**
2	Pins 1 & 2 closed
3	Pins 1 & 3 closed
í 4	Pins 1 & 4 closed
5	Pins 1 & 5 closed

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Proprietary AT Command Set

BIT-MAPPED REGISTER S14		
Format		AT [cmds] S14=*n* [cmds]
Default:		170
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 í 1	Command echo disabled Command echo enabled
2	í 0 1	Result codes enabled Result codes disabled
3	0 í 1	Display result codes in numeric format Display result codes in verbose format
4	0	Not used
5	0 í 1	Tone dial enabled Pulse dial enabled
6	0	Not used
7	0 í 1	Answer mode enabled Originate mode enabled

BIT-MAPPED REGISTER S21		
Format		AT [cmds] S21=*n* [cmds]
Default:		16
Range:		0 - 184
Unit:		Bit-mapped.
Description:		Selects low DTR action, DCD signal, and the Long Space Disconnect function.
Bit	**Value**	**Function**
0	0	Not used.
1	0	Not used.
2	0	Not used.
4, 3	í 00 01 10 11	DTR signal ignored. Modem goes to command mode on low DTR. Modem disconnects on low DTR. Auto-Answer is disabled. Modem is initialized on low DTR.
5	0 í 1	DCD forced high. DCD normal.
6	0	Not used.
7	í 0 1	Long Space Disconnect function disabled. Long Space Disconnect function enabled.

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BIT-MAPPED REGISTER S22		
Format		AT [cmds] S22=*n* [cmds]
Default:		117
Range:		0-127
Unit:		Bit-mapped
Description:		Controls speaker volume and controls, and limits results codes
Bit	**Value**	**Function**
1, 0	01	On volume
	í 10	Medium level volume
	11	High level volume
3, 2	00	Speaker off
	í 01	Speaker off until carrier detect
	10	Speaker always on
	11	Speaker on during handshake
6, 5, 4	000	Basic result codes only enabled
	100	Basic and connection speed result codes enabled
	101	Basic and connection speed result codes and dial tone detection enabled
	110	All result codes except dial tone detection enabled
	í 111	All result codes enabled
7	í 00	Make/break ratio 39%/61%
	01	Make/break ratio 33%/67%

BIT-MAPPED REGISTER S23		
Format		AT [cmds] S23=*n* [cmds]
Default:		7
Range:		0-247
Unit:		Bit-mapped
Description:		Grants/denies remote digital loopback, controls DTE rate and parity, and sets guard tone
Bit	**Value**	**Function**
0	0	Remote digital loopback disabled
	í 1	Remote digital loopback enabled
2, 1	00	Sets serial port speed to 0-300bps
	01	Not used
	10	Sets serial port speed to 1200bps
	í 11	Sets serial port speed to 2400bps
3	0	Not used
5,4	í 00	Parity even
	01	Space
	10	Parity odd
	11	No Parity
7, 6	í 00	Guard tone disabled
	01	Guard tone 550Hz enabled
	10	Guard tone 1800Hz enabled

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PROTOCOL		
Format		AT [cmds] S27=*n* [cmds]
Default:		32
Range:		0 - 32
Unit:		Bit-mapped
Description:		Selects operating protocol
Bit	**Value**	**Function**
0	0	Not used
1	0	Not used
2	0	Not used
3	0	Not used
4	0	Not used
5	0	Not used
6	0 í 1	CCITT V.22bis/V.22 enabled Bell 212 enabled

TEST MODES		
Format		AT [cmds] S16=*n* [cmds]
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 1	Local analog loopback disabled Local analog loopback enabled
1	0	Not used.
2	í 0 1	Local digital loopback disabled Local digital loopback enabled
3	í 0 1	Modem not in remote digital loopback. Remote digital loopback in progress.
4	í 0 1	Remote digital loopback disabled Remote digital loopback enabled
5	í 0 1	Remote digital loopback w/ self-test disabled Remote digital loopback w/ self-test enabled
6	í 0 1	Local analog loopback w/ self-test disabled Local analog loopback w/ self-test enabled