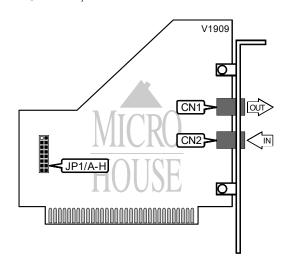
Card Type Modem (asynchronous/synchronous)

Chip Set Unidentified

Maximum Data Rate 2400bps

Data Bus 8-bit ISA

Data Modulation Protocol Bell 103/212A
ITU-T V.22, V.22bis



	CONNE	CTIONS	
Function	Label	Function	Label
Line out	CN1	Line in	CN2

SERIAL PORT ADDRESS					
Setting	JP1/A	JP1/B	JP1/C	JP1/D	
í COM1 (3F8h)	Closed	Open	Open	Open	
COM2 (2F8h)	Open	Closed	Open	Open	
COM3 (3E8h)	Open	Open	Closed	Open	
COM4 (2E8h)	Open	Open	Open	Closed	

		INTERRUPT		
Setting	JP1/E	JP1/F	JP1/G	JP1/H
3	Closed	Open	Open	Open
í 4	Open	Closed	Open	Open
5	Open	Open	Closed	Open
7	Open	Open	Open	Closed

. . . continued from previous page

Proprietary AT Command Set

		BIT-MAPPED REGISTER S14
Format		AT [cmds] S14=n [cmds]
Default:		170
Range:		0-174
Unit:		Bit-mapped
Descript	ion:	Controls echo, result codes and display, dial mode, and answer/originate mode.
Bit	Value	Function
0	í O	Not used
1	0	Command echo disabled
	í 1	Command echo enabled
2	í O	Result codes enabled
	1	Result codes disabled
3 0		Display result codes in numeric format
	í 1	Display result codes in verbose format
4	í O	Not used
5	0	Tone dial enabled
	í 1	Pulse dial enabled
6	í O	Not used
7	0	Answer mode enabled
	í 1	Originate mode enabled

	BIT-MAPPED REGISTER S21				
Format		AT [cmds] S21= <i>n</i> [cmds]			
Default:		0			
Range:		0-253			
Unit:		Bit-mapped			
Descript	ion:	Selects jack type, CTS/DCD/DSR signals, low DTR action, and the long space			
		disconnect function.			
Bit	Value	Function			
0	í O	Selects RJ-11, RJ-41S, or RJ45S jack			
	1	Selects RJ-12 or RJ-13 jack			
1	í O	Not used			
2	ĺ í O	CTS follows RTS			
	1	CTS forced high			
4, 3	í 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	í O	DCD forced high			
	1	DCD normal			
6	í O	DSR forced high			
	1	DSR normal			
7	í O	Long space disconnect function disabled			
	1	Long space disconnect function enabled			

. . . continued from previous page

		BIT-MAPPED REGISTER S22
Format		AT [cmds] S22= <i>n</i> [cmds]
Default:		118
Range:		0-127
Unit:		Bit-mapped
Descripti	ion:	Controls speaker volume and controls, and limits results codes.
Bit	Value	Function
1, 0	00	Off volume
	í 01	Low level volume
	10	Medium level volume
	11	High level volume
3, 2 00		Speaker off
í 01		Speaker off on carrier
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 dialtone detection enabled
	110	All result codes except dialtone detection enabled
	í 111	All result codes enabled

		BIT-MAPPED REGISTER S23
Format		AT [cmds] S23=n [cmds]
Default:		7
Range:		0-189
Unit:		Bit-mapped
Descripti	ion:	Grants/denies remote digital loopback, controls DTE rate and parity, and sets guard
		tone.
Bit	Value	Function
0	0	Remote digital loopback denied
	í 1	Remote digital loopback allowed
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
í 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	í 00	Parity even
01		Not used
10		Parity odd
	11	No Parity
7, 6	í 00	Guard tone disabled
	01	Guard tone disabled
	10	Guard tone 1800Hz enabled

. . . continued from previous page

		BIT-MAPPED REGISTER S27
Format		AT [cmds] S27=n [cmds]
Default: 9		
Range:		0-109
Unit:		Bit-mapped
Descripti	ion:	Selects line type, clock source, and ITU-T/Bell modes.
Bit	Value	Function
3, 1, 0	í 101	Not used
2	íΟ	Switched line
	1	Leased line
5, 4 f 00 L		Local modem generates transmit clock source
	01	Local DTE generates transmit clock source
	10	Remote DCE/DTE generates transmit clock source
6 í 0		ITU/T mode
	1	Bell mode

		BIT-MAPPED REGISTER S28
Format AT [cmds] S28=n [cmds]		
Default: 0		
Range:		0-31
Unit:		Bit-mapped
Descripti	ion:	Controls V.23 split speed, transmit/receive speed, half duplex; and pulse dialing.
Bit	Value	Function
0	í O	V.23 split speed operation disabled
	1	V.23 split speed operation enabled
1	í O	75bps transmit, 1200bps receive disabled
1		1200bps transmit, 75bps receive enabled
2	í O	V.23 half-duplex disabled
	1	1200bps transmit, 1200bps receive enabled
4, 3	3 í 00 39ms make/61ms break at 10pps	
	01	33ms make/67ms break at 10pps
	10	39ms make/61ms break at 20pps
	11	33ms make/67ms break at 20pps

BIT	T-MAPPED	REGISTER S31	
	AT [cm	ds] S31= <i>n</i> [cmds]	
	2		
	0-10		
	Bit-map	ped	
	Controls	s auto-baud function and result cod	les
Value			Function
íC	Not use	d	
		0	Auto-baud disabled
		í 1	Auto-baud enabled
		í 00	DTE speed displayed in result code
		01	Extended result codes enabled; DC

. . . continued from previous page

		BIT-MAPPED REGISTER S39
Format AT [cmds] S39=n [cmds]		
Default:		3
Range:		0-6
Unit:		Bit-mapped
Description:		Controls flow control
Bit Value		Function
2, 1, 0	000	Flow control disabled
í 011 Hardward		Hardware flow control enabled
100		Normal software flow control enabled
101 Transparent software flow control enabled		Transparent software flow control enabled
	110 Both hardware and software flow control enabled	

	BIT-MAPPED REGISTER S40		
Format	Format AT [cmds] S40=n [cmds]		
Default:		105	
Range:		0-239	
Unit:		Bit-mapped	
Descripti	ion:	Controls power level and break handling; selects MNP extended services, link	
		negotiation, and block size.	
Bit	Value	Function	
0	0	MNP extended services disabled	
	í 1	MNP extended services enabled	
1	í O	Power level adjustment enabled	
	1 Power level adjustment disabled		
2	2 í 0 Link will be negotiated at highest possible speed		
1 Link will be negotiated at 1200bps		Link will be negotiated at 1200bps	
5, 4, 3 000		\K0	
	001	\K1	
	010	\K2	
011		\K3	
100		\K4	
í 101		\K5	
7, 6	00	MNP block size is 64 characters	
	í 01	MNP block size is 128 characters	
	10	MNP block size is 192 characters	
	11	MNP block size is 256 characters	

. . . continued from previous page

		BIT-MAPPED REGISTER S41
Format		AT [cmds] S41= <i>n</i> [cmds]
Default:		3
Range:		0-31
Unit:		Bit-mapped
Description:		Selects compression, auto-retrain, flow control, and MNP mode.
Bit	Value	Function
1 - 0	00	Data compression disabled
	01	MNP5 enabled
	10	V.42bis enabled
	í 11	MNP5 and V.42bis enabled
2	í O	Auto-retrain disabled
	1	Auto-retrain enabled
3	ĺ (0	Flow control disabled
	1	Flow control enabled
4	í O	Stream mode for MNP
	1	Block mode for MNP

	FLOW CONTROL CHARACTER - XOFF
Type:	Register
Format:	AT [cmds] S33=n [cmds]
Default:	19
Range:	0-255
Unit:	ASCII
Description:	Sets the character used to represent XOFF

	FLOW CONTROL CHARACTER - XON
Type:	Register
Format:	AT [cmds] S32=n [cmds]
Default:	17
Range:	0-255
Unit:	ASCII
Description:	Sets the character used to represent XON

	REPORT INFORMATION
Type:	Immediate
Format:	AT [cmds] In [cmds]
Description:	Displays information requested
Command	Function
10	Display product identification code
l1	Display ROM checksum
12	Display OK or ERROR for ROM checksum
13	Display firmware revision
14	Display OEM string
15	Display country code
16	Display data pump model

. . . continued from previous page

	SLEEP TIMER
Type:	Register
Format	AT [cmds] S24= <i>n</i> [cmds]
Default:	0
Range:	0-255
Unit:	1 second
Description:	Maximum duration of DTE and DCE inactivity allowed prior to initiating low-power sleep mode.

	S-REGISTER - CONTENTS
Type:	Immediate
Format:	AT [cmds] ? [cmds]
Description:	Displays contents of last S-register access

		TEST MODES
Type:		Register
Format		AT [cmds] S16=n [cmds]
Default:		128
Range:		0-128
Unit:		Bit-mapped
Description:		Controls loopback tests, analog, digital, remote digital, and self tests.
Bit	Value	Function
0	íΟ	Local analog loopback not in progress
	1	Local analog loopback in progress
1	í O	Not used
2	í O	Local digital loopback not in progress
	1	Local digital loopback in progress
3	í O	Modem not in remote digital loopback
	1	Remote digital loopback in progress
4	í O	Remote digital loopback not requested
	1	Remote digital loopback requested
5	í O	Remote digital loopback w/ error count not in progress
	1	Remote digital loopback w/ error count in progress
6	í O	Local analog loopback w/ self-test not in progress
	1	Local analog loopback w/ self-test in progress
7	í 1	Not used

	TRANSMISSION LEVEL - PSTN
Туре	Register
Format	AT [cmds] S91=n [cmds]
Default	10
Range	0-15
Unit	-1 dBm
Description	Sets the signal level for transmission over switched phone lines

. . . continued from previous page

	TRANSMISSION LEVEL - FAX
Type:	Register
Format:	AT [cmds] S92= <i>n</i> [cmds]
Default:	10
Range:	0-15
Unit:	-1 dBm
Description:	Sets the signal level for transmission while in fax mode