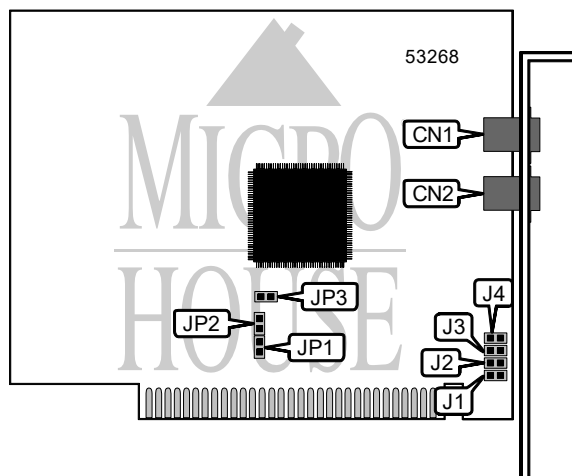


NEWCOM, INC.

33600 IFX INTERNAL

Card Type	Modem (asynchronous/synchronous)
Chipset	Rockwell
Maximum Data Rate	33.6Kbps
Maximum Fax Rate	14.4Kbps
Data Modulation	Bell 103A/212A ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis, V.34 Rockwell V.FC
Fax Modulation	ITU-T V.17, V.21CH2, V.27ter, V.29
Error Correction/Compression	MNP5, MNP10, V.42, V.42bis
Fax Class	Class II
Data Bus	8-bit ISA
Card Size	Full height, one-third length



CONNECTIONS			
Function	Label	Function	Label
Telephone line	CN1	Telephone line	CN2

BASE I/O ADDRESS SELECTION			
Setting	J3	J4	
3F8h (COM1:)	Closed	Closed	
2F8h (COM2:)	Closed	Open	
3E8h (COM3:)	Open	Closed	
2E8h (COM4:)	Open	Open	

INTERRUPT SELECTION					
Setting	J1	J2	JP1	JP2	JP3
2	Open	Open	Open	Open	Closed
3	Closed	Open	Open	Open	Open
4	Open	Closed	Open	Open	Open
5	Open	Open	Closed	Open	Open
7	Open	Open	Open	Closed	Open

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SUPPORTED STANDARD COMMANDS		
Basic AT Commands		
+++ , 'comma' , A/		
A, E, H, L, M, N, O, P, Q, T, V, W, X, Y, Z		
&C, &D, &F, &G, &J, &K, &L, &M, &P, &Q, &R, &S, &T, &V, &W, &X, &Y, &Z		
Extended AT Commands		
\A, \B, \J, \K, \L, \N		
%C, %E, %L, %Q, %TT		
Special AT Commands		
+MS		
S-Registers		
S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S14, S16, S18, S21, S22, S23, S24, S25		
S26, S27, S29, S30, S31, S32, S33, S36, S38, S39, S46, S48, S82, S86, S91, S92, S95		
Note: See MHI help file for complete information.		

Proprietary AT Command Set

AUTOSYNC OPTIONS		
Type:	Register	
Format	AT [cmds] S19= <i>n</i> [cmds]	
Default:	26	
Range:	0 - 30	
Description:	Controls autosync protocol, HDLC address detection, bit coding, and HDLC idle.	
Bit	Value	Function
0	0	Not used
1	0	Binary synchronous protocol used.
	1	HDLC protocol used.
2	0	HDLC address detect disabled.
	1	HDLC address detect enabled.
3	0	NRZI bit coding used.
	1	NRZ bit coding used.
4	0	HDLC idle sends MARK.
	1	HDLC idle sends FLAG or SYNC.

AUTOSYNC HDLC ADDRESS	
Type:	Register
Format:	AT [cmds] S20= <i>n</i> [cmds]
Default:	0
Range:	0-255
Unit:	Unidentified
Description:	Sets the HDLC address and binary synchronous character.

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BIT-MAPPED REGISTER S28		
Format	AT [cmds] S28= <i>n</i> [cmds]	
Default:	0	
Range:	0 - 31	
Description:	Controls V.23 split speed, transmit/receive speed, half duplex; and pulse dialing, and MNP10 link negotiation.	
Bit	Value	Function
0	0	V.23 split speed operation disabled.
	1	V.23 split speed operation enabled.
1	0	75bps transmit, 1200bps receive enabled.
	1	1200bps transmit, 75bps receive enabled.
2	0	Not used.
4, 3	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.
5	0	Not used.
7, 6	00	MNP10 link will be negotiated at highest possible speed.
	01	MNP10 link will be negotiated at 1200bps.
	10	MNP10 link will be negotiated at 4800bps.

BIT-MAPPED REGISTER S40		
Format	AT [cmds] S40= <i>n</i> [cmds]	
Default:	107	
Range:	0 - 255	
Description:	Controls power level and break handling; selects MNP extended services, link negotiation, and block size.	
Bit	Value	Function
0	0	MNP10 disabled.
	1	MNP10 enabled.
1	0	MNP10 at 2400 and 1200bps disabled.
	1	MNP10 at 2400 and 1200bps enabled.
2	0	Power level adjustment enabled.
	1	Power level adjustment disabled.
5 - 3	000	\K0 set.
	001	\K1 set.
	010	\K2 set.
	011	\K3 set.
	100	\K4 set.
	101	\K5 set.
7, 6	00	MNP block size is 64 characters.
	01	MNP block size is 128 characters.
	10	MNP block size is 192 characters.
	11	MNP block size is 256 characters.

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BIT-MAPPED REGISTER S41		
Format	AT [cmds] S41= <i>n</i> [cmds]	
Default:	131	
Range:	128 - 223	
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.
	11	MNP5 and V.42bis enabled.
6, 2	00	Auto-retrain disabled.
	01	Auto-retrain enabled.
	10	Auto-fallback/fall-forward enabled.
3	0	Flow control disabled.
	1	Flow control enabled.
4	0	Stream mode for MNP.
	1	Block mode for MNP.
5	0	Not used.
7	1	Not used.

COMMUNICATION PROTOCOLS		
Type:	Configuration	
Format:	AT [cmds] B <i>n</i> [cmds]	
Description:	Selects the communication protocol for low-speed data calls.	
Command	Protocol	
B0	Modem will use ITU-T V.22 at 1200bps.	
B1	Modem will use Bell 212A at 1200bps.	
B15	Modem will use ITU-T V.21 at 300bps.	
B16	Modem will use Bell 103A at 300bps.	

DIAL		
Type:	Immediate	
Format:	AT [cmds] D<#>[cmds]	
Description:	Dials the telephone number indicated according to any modifiers included in the string.	
Command	Function	
DL	Re-dial last number.	
DP	Pulse dialing enabled.	
DR	Answer mode enabled; originate mode disabled following handshake initiation.	
DS= <i>n</i>	Dial stored telephone number <i>n</i> .	
DT	Tone dialing enabled.	
DW	Dialing resumed following dial tone detection.	

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DIAL (CON'T)	
Command	Function
D,	Dialing paused for amount of time specified in S8 register.
D!	Flash function initiated. Modem commanded to go off-hook for specified time before returning on-hook.
D@	Wait for Quiet Answer function enabled. Modem waits until a "quiet answer," a ring-back signal followed by silence up to the time specified in S7, is received prior to executing the rest of the dial string.
D^	Enable calling tone for this call.
D;	Modem returned to idle state after dialing. The semicolon can only be placed at the end of the dial command.

DISPLAY INFORMATION	
Type:	Immediate
Format:	AT [cmds] In [cmds]
Description:	Displays information requested about the modem.
Command	Function
I0	Displays product identification code.
I1	Displays ROM checksum.
I2	Tests and displays ROM checksum result.
I3	Displays firmware revision.
I4	Displays product capabilities.
I5	Displays the country code.
I6	Displays the data pump model.

LINE SPEED	
Type:	Register
Format	AT [cmds] S37=n [cmds]
Description:	Sets the maximum connect speed attempted during handshake process.
Command	Function
i S37=0	Attempt to connect at speed of last AT command.
S37=1	Attempt to connect at 300bps.
S37=2	Attempt to connect at 300bps.
S37=3	Attempt to connect at 300bps.
S37=5	Attempt to connect at 1200bps.
S37=6	Attempt to connect at 2400bps.
S37=7	Attempt to connect with V.23 at 1200/75bps.
S37=8	Attempt to connect at 4800bps.
S37=9	Attempt to connect at 9600bps.
S37=10	Attempt to connect at 12Kbps.
S37=11	Attempt to connect at 14.4Kbps.
S37=12	Attempt to connect at 7200bps.