Card Type Modem (asynchronous)

Chip Set Unidentified

Maximum Data Rate 9600bps

Maximum Fax Rate Unidentified

Data Bus 8-bit ISA

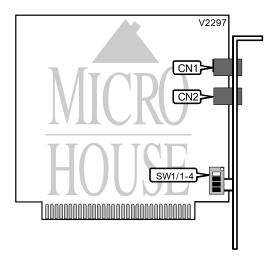
Fax Class Class I & II

Data Modulation Protocol Bell 103/212A

ITU-T V.21, V.22, V.22bis, V.32

Fax Modulation Protocol Unidentified

Error Correction/Compression MNP5, V.42, V.42bis



| | CONNE | ECTIONS | |
|-------------|-------|-------------|-------|
| Function | Label | Function | Label |
| Line out/in | CN1 | Line in/out | CN2 |

| | SERIAL PORT ADDRESS | |
|-------------|---------------------|-------|
| Setting | SW1/1 | SW1/2 |
| COM1 (3F8h) | Off | Off |
| COM2 (2F8h) | Off | On |
| COM3 (3E8h) | On | Off |
| COM4 (2E8h) | On | On |

| | INTERRUPT SELECTION | |
|---------|---------------------|-------|
| Setting | SW1/3 | SW1/4 |
| 2 | On | On |
| 3 | Off | On |
| 4 | Off | Off |
| 5 | On | Off |

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| SUPPORTED COMMAND SET |
|---|
| Basic AT Commands |
| AT, 'Comma', A/ |
| A, B, C, E, F, H, L, M, N, O, P, Q, S, T, V, W, X, Y, Z |
| &C, &D, &F, &G, &K, &L, &M, &P, &Q, &R, &S, &T, &U, &V, &W, &Y, &Z |
| Extended AT Commands |
| \A, \B, \C, \G, \J, \O, \U, \V, \X, \Y, \Z |
| %A, %E, %G |
| S Registers |
| S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S14, S16, S18, S21, S22, S25 |
| S26, S27, S30, S37, S95, S108, S109, S110 |
| Special Commands |
| "H, "O, -C, -J, -V |
| Note: Please see MHI Help file for full command documentation. |

Proprietary AT Command Set

| | | BIT-MAPPED REGISTER S23 |
|--------------|-------|---|
| Format | | AT [cmds] S23= <i>n</i> [cmds] |
| Default: 15 | | 15 |
| Range: 0-191 | | 0-191 |
| Unit: | | Bit-mapped |
| Description | on: | 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 - 1 | 000 | Sets serial port speed to 0-300bps |
| 1 | 001 | Sets serial port speed to 1200bps |
| 1 | 010 | Sets serial port speed to 2400bps |
| 1 | 011 | Sets serial port speed to 4800bps |
| 1 | 100 | Sets serial port speed to 7200bps |
| 1 | 101 | Sets serial port speed to 9600bps or 14400bps |
| 1 | 110 | Sets serial port speed to 19200bps |
| | í 111 | Sets serial port speed to 38400bps or 57600bps |
| 5, 4 | í 00 | Parity even |
| 1 | 01 | Space or No parity |
| 1 | 10 | Parity odd |
| | 11 | Mark Parity |
| 7, 6 | í 00 | Guard tone disabled |
| | 01 | Guard tone 550Hz enabled |
| | 10 | Guard tone 1800Hz enabled |

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| | | BREAK TYPE | | |
|--------------|--|--|---|--|
| Type: | Configuration | | | |
| Format: | AT [cmds] \Kn [cmds | s] | | |
| Description: | Configures action of | break signal | | |
| Command | Break from DTE in RELIABLE or NORMAL mode | Modem receives \B during command state | Break from DTE in DIRECT mode | Break received from remote modem |
| \K0 | Online command mode enabled, send no break to remote modem | Break sent to remote modem and buffers cleared | Online command mode enabled, send break to remote modem | Buffers cleared, break sent to DTE |
| \K1 | Break sent to remote modem and buffers cleared | Break sent to remote modem and buffers cleared | Send break to remote modem immediately | Buffers cleared, break sent to DTE |
| \K2 | Online command mode enabled, send no break to remote modem | Send break to remote modem immediately | Online command mode enabled, send break to remote modem | Break sent immediately to DTE |
| \K3 | Send break to remote modem immediately | Send break to remote modem immediately | Send break to remote modem immediately | Break sent immediately to DTE |
| \K4 | Online command mode enabled, send no break to remote modem | Send break with transmitted data | Online command mode enabled, send break to remote modem | Break sent with received data to the DTE |
| í \K5 | Send break with transmitted data | Send break with transmitted data | Send break to remote modem immediately | Break sent with received data to the DTE |

| COMPRESSION | | |
|--------------|--------------------------|--|
| Type: | Configuration | |
| Format: | AT [cmds] %Cn [cmds] | |
| Description: | Selects data compression | |
| Command | Function | |
| %C0 | MNP5 disabled | |
| í %C1 | MNP5 enabled | |

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| | CONNECT MODE |
|--------------|---|
| Type: | Configuration |
| Format: | AT [cmds] \Nn [cmds] |
| Description: | Controls the type of connection the modem will operate in |
| Command | Function |
| \N0 | Normal mode enabled |
| \N1 | Direct mode enabled |
| \N2 | MNP reliable mode enabled |
| í \N3 | V.42 auto-reliable mode enabled |
| \N4 | V.42 reliable mode enabled |
| \N5 | LAPM/Normal mode enabled |

| | DIAL |
|--------------|---|
| Type: | Immediate |
| Format: | AT [cmds] D<#> [cmds] |
| Description: | Dials telephone number according to any modifiers included in the string |
| Note: | Any combination of modifiers can be used to produce the desired dial functions in |
| | sequence. |
| Modifier | Function |
| Р | Pulse dialing enabled |
| R | Answer mode enabled, originate mode disabled following handshake initiation |
| S=n | Dial stored telephone number <i>n</i> =0-3 |
| Т | Tone dialing enabled |
| W | Dialing resumed following dial tone detection |
| , | Dialing paused for amount of time specified in S8 register |
| ! | Modem commanded to go off-hook for specified time before returning on-hook |
| @ | Wait for quiet answer |
| , | Modem returned to command state after dialing |

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| | DTE CONNECT SPEED |
|--------------|---|
| Type: | Configuration |
| Format: | AT [cmds] S112=n [cmds] |
| Description: | Select the DTE speed during data transfer |
| Command | Function |
| í S112=0 | Last AT speed |
| S112=1 | Not used |
| S112=2 | Sets DTE speed to 300bps |
| S112=3 | Sets DTE speed to 1200bps |
| S112=4 | Sets DTE speed to 2400bps |
| S112=5 | Sets DTE speed to 4800bps |
| S112=6 | Sets DTE speed to 7200bps |
| S112=7 | Sets DTE speed to 9600bps |
| S112=8 | Sets DTE speed to 12000bps |
| S112=9 | Sets DTE speed to 14400bps |
| S112=10 | Sets DTE speed to 16800bps |
| S112=11 | Sets DTE speed to 19200bps |
| S112=12 | Sets DTE speed to 38400bps |
| S112=13 | Sets DTE speed to 57600bps |
| S112=14 | Sets DTE speed to 600bps |

| FLOW CONTROL TYPE | | |
|-------------------|--|--|
| Type: | Configuration | |
| Format: | AT [cmds] \Qn [cmds] | |
| Description: | Sets type of flow control used by modem | |
| Command | Function | |
| \Q0 | Flow control disabled | |
| \Q1 | Bi-directional XON/XOFF flow control enabled | |
| \Q2 | Unidirectional hardware flow control enabled | |
| í \Q3 | Bi-directional hardware flow control enabled (RTS/CTS) | |

| | INACTIVITY TIMER |
|--------------|--|
| Type: | Configuration |
| Format: | AT [cmds] \Tn [cmds] |
| Default: | 0 |
| Range: | 0-90 |
| Unit: | 1 minute |
| Description: | Sets the length of time that the modem does not receive information before it disconnects. |

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| | REPORT INFORMATION |
|--------------|--------------------------------|
| Type: | Immediate |
| Format: | AT [cmds] In [cmds] |
| Description: | Displays information requested |
| Command | Function |
| 10 | Reports product code |
| I1 | Reports ROM checksum |
| 12 | Tests and reports ROM checksum |
| 13 | Reports ROM components |
| 14 | Reports modem capabilities |