PHILIPS CONSUMER ELECTRONICS, CO.

PCA11IM (JUMPER VER.)

Card TypeModemChip SetUnidentified

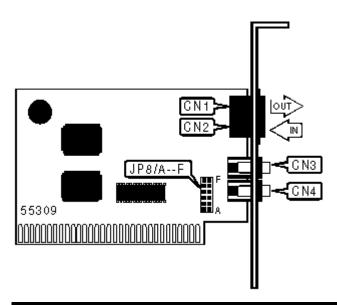
I/O Options Line out, line in, microphone in, speaker out

Maximum Modem Rate14.4KbpsMaximum Fax Rate14.4KbpsData Modulation ProtocolBell 103/212A

ITU-T V.22, V.22bis, V.23, V.32, V.32bis

Fax Modulation ProtocolITU-T V.17, V.27ter, V.29Error Correction/CompressionMNP5, V.42, V.42bis

Fax Class | Class | & ||
Data Bus | 8-bit | | SA



Function Label Function Label CN1 Speaker out CN3 Line in (RJ-11) CN2 Microphone in CN4

SERIAL PORT ADDRESS		
Setting	JP8/A	JP8/B
COM1 (3F8h)	Closed	Closed
COM2 (2F8h)	Open	Closed
COM3 (3E8h)	Closed	Open
COM4 (2E8h)	Open	Open

INTERRUPT	Setting	JP8/C	JP8/D	JP8/E	JP8/F	
		INTERRUP	т			

IRQ2	Closed	Open	Open	Open
IRQ3	Open	Closed	Open	Open
IRQ4	Open	Open	Closed	Open
IRQ5	Open	Open	Open	Closed

SUPPORTED COMMAND SET

Basic AT Commands

AT, **■+++■**, A/

A, E, H, M, O, P, T, V, X, Y, Z

&C, &F, &G, &M, &T, &V, &W, &X, &Y, &Z

Extended AT Commands

%A, %C, %E, %Q

 $\A, \B, \C, \G, \J, \K, \Q, \T, \X$

S Registers

 $S0,\,S1,\,S2,\,S3,\,S4,\,S5,\,S6,\,S7,\,S8,\,S9,S10,\,S11,\,S12,\,S14,\,S16,\,S18,\,S21,\,S22,\,S23,\,S25$

S26, S27, S30, S91

Note: See MHI Help File for full command documentation.

PROPRIETARY AT COMMAND SET

Type: Configuration Format: AT [cmds] Nn [cmds] Description: Selects various options for the automatic detection and negotiation of protocols during the handshake process if the modem is communicating with a remote modem of dissimilar speed. Command Function NO Auto-mode detection disabled; handshake begins at line speed designated by the %B command

■ N1 Auto-mode detection enabled; handshake begins at line speed designated by the %B command and DTE speed

COMMUNICATION PROTOCOLS

Type: Configuration

Format: AT [cmds] Bn [cmds]

Description: Selects the communication protocol for data calls

Note: The B command allows the simultaneous selection of more than one suffix, enabling multiple protocols.

Command Protocol

B0 ITU-T V.22 at 1200bps

■ B1 Bell 212A at 1200bps

B2 ITU-T V.22 at 75/1200Kbps in originate mode, 1200/75Kbps in answer mode

DATA SET READY (DSR)

Type: Configuration

Format: AT [cmds] &Sn [cmds]

Description: Selects DSR options

Command Function

■ &S0 DSR forced high

&S1 DSR high only while modem is handshaking or connected

DATA TERMINAL READY (DTR)

Type: Configuration

Format: AT [cmds] &Dn [cmds]

Description: Selects modem response to DTR

Command Function

■ &D0 DTR ignored

&D1 DTR toggle causes online command mode

&D2 DTR toggle causes modem to go on-hook

&D3 Modem reset on DTR toggle

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.

Command Function

DP Pulse dialing enabled

DR Answer mode enabled; originate mode disabled following handshake initiation.

DS=n Dial stored telephone number *n*

DT Tone dialing enabled/Pulse dialing disabled

DW Dialing resumed following dial tone detection

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 Quite 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^ Data calling tone enabled

D; Modem returned to idle state after dialing. The semicolon can only be placed at the end of the dial command.

FLOW CONTROL

Type: Configuration

Format: AT [cmds] &Kn [cmds]

Description: Enables flow control options

Command Function

&K0 Flow control disabled

&K3 RTS/CTS flow control enabled

■ &K4 XON/XOFF flow control enabled

_	
Type:	Configuration

Format: AT [cmds] &Ln [cmds]

Description: Selects line type

Command Line Type

■ &L0 Switched line (PSTN/Dial-up)

&L1 Leased line

&L2 Power-on leased line

PULSE DIALING RATIO

Type: Configuration

Format: AT [cmds] &Pn [cmds]

Description: Selects pulse dial make/break ratio

Command Function

■ &P0 39/61ms at 10pps (North America)

&P1 33/67ms at 10pps (Europe)

&P2 39/61ms at 20pps

REPORT INFORMATION

Type: Immediate

Format: AT [cmds] In [cmds]

Description: Displays information requested

Command Function

I0 Reports product code

I1 Reports ROM checksum

I2 Tests and reports ROM checksum

I3 Reports model ID & firmware ID

I5 Reports country code

RESULT CODES

Type:	Configuration

Format: AT [cmds] Qn [cmds]

Description: Enables modem to send result codes to the DTE

Command Function

■ Q0 Result code sending enabled

Q1 Result code sending disabled

Q2 "Ring" result code disabled. In answer mode; CONNECT and NO CARRIER disabled

SPEAKER VOLUME

Type: Configuration

Format: AT [cmds] Ln [cmds]

Description: Controls speaker volume

Command Function

L0 Low volume setting

L1 Low volume setting

■ L2 Medium volume setting

L3 Highest volume setting

EXTENDED AT COMMAND SET

CONNECTION SPEED

Type: Configuration

Format: AT [cmds] %Bn [cmds]

Description: Selects maximum modem connection speed

Command Function

%B300 300bps

%B1200 1200bps

%B2400	2400bps
%B4800	4800bps
%B7200	7200bps
%B9600	9600bps
%B12000	12.0Kbps

CONNECT MODE

Type: Configuration

■ %B14400

Format: AT [cmds] \Nn [cmds]

Description: Controls the type of connection the modem will operate in

Command Function

\N0 Normal mode enabled

14.4Kbps

\N1 Direct mode enabled

\N2 MNP reliable mode enabled

■ \N3 Auto-reliable mode enabled

\N4 V.42 reliable mode enabled

\N5 V.42/Normal mode enabled

\N6 V.42/MNP mode enabled

\N7 MNP/Normal mode enabled

EXTENDED RESULT CODES

Type: Configuration

Format: AT [cmds] Vn [cmds]

Description: Selects extended result codes

Command Function

\V0 DCE speed displayed. Extended result codes disabled

V1 DCE speed; simple reliable mode extended result codes enabled

■ \V2 DCE speed; detailed reliable mode extended result codes enabled

\V3 DTE speed only

S(status) - REGISTERS

AUTO-RELIABLE FALLBACK CHARACTER

Type: Register

Format: AT [cmds] S29=n [cmds]

Range: 0-127

Unit: ASCII

Description: Sets the character used as the auto-reliable fallback character

BIT-MAPPED REGISTER S15

Format: AT [cmds] S15=n [cmds]

Range: 0-255

Unit: Bit-mapped

Description: Controls MNP options, break types, DTE rate adjustments.

Note: Further information is currently unavailable

BIT-MAPPED REGISTER S17

Format: AT [cmds] S17=n [cmds]

Range: 0-255

Unit: Bit-mapped

Description: Controls relaible mode, data compression, and extended responses

Note: Further information is currently unavailable

BIT-MAPPED REGISTER S19

Format: AT [cmds] S19=n [cmds]

Range: 0-255

Unit: Bit-mapped

Description: Determines flow control, echo, XON/XOFF pass-through

Note: Further information is currently unavailable

BIT-MAPPED REGISTER S20

Format: AT [cmds] S20=n [cmds]

Range: 0-255

Unit: Bit-mapped

Description: Sets PC/NEC baud rate options, guard tones

Note: Further information is currently unavailable

BIT-MAPPED REGISTER S24

Format: AT [cmds] S24=n [cmds]

Range: 0-255

Unit: Bit-mapped

Description: Controls make/break ratio, auto retrain, V.34/VFC, auto mode

Note: Further information is currently unavailable

BIT-MAPPED REGISTER S28

Format: AT [cmds] S28=n [cmds]

Range: Unidentified

Unit: Bit-mapped

Description: Determine DCE rate

Note: Further information is currently unavailable

SLEEP TIMER

Type: Register

Format AT [cmds] S13=n [cmds]

Range: 0-255

Unit: 1 second

Description:

Maximum duration of DTE and DCE inactivity allowed prior to initiating low-power sleep mode.