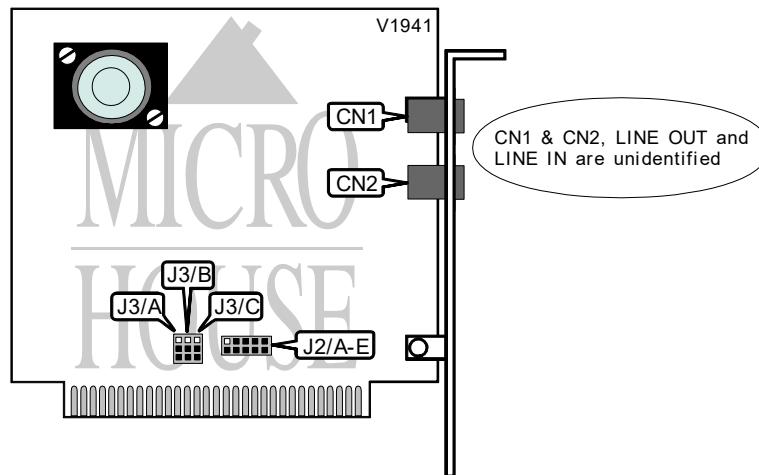


PHILIPS

FAX MODEM PCA33IM

Card Type	Fax, Modem (asynchronous)
Chip Set	Unidentified
Maximum Data Rate	33.6Kbps
Maximum Fax Rate	14.4Kbps
Data Bus	8-bit ISA
Fax Class	Class I
Data Modulation Protocol	Bell 103/212A ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis, V.34, V.34+ Rockwell V.FC
Fax Modulation Protocol	ITU-T V.17, V.21CH2, V.27ter, V.29
Error Correction/Compression	MNP5, V.42, V.42bis



CONNECTIONS			
Function	Label	Function	Label
Line out/in - unidentified	CN1	Line in/out - unidentified	CN2

SERIAL PORT ADDRESS			
Setting	J3/A	J3/B	J3/C
COM1 (3F8h)	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
COM2 (2F8h)	Pins 2 & 3 open	Pins 2 & 3 closed	Pins 2 & 3 closed
COM3 (3E8h)	Pins 2 & 3 closed	Pins 2 & 3 open	Pins 2 & 3 closed
COM4 (2E8h)	Pins 2 & 3 open	Pins 2 & 3 open	Pins 2 & 3 closed

INTERRUPT					
Setting	J2/A	J2/B	J2/C	J2/D	J2/E
2	Closed	Open	Open	Open	Open
3	Open	Closed	Open	Open	Open
4	Open	Open	Closed	Open	Open
5	Open	Open	Open	Closed	Open
7	Open	Open	Open	Open	Closed

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Proprietary AT Command Set

AMPERSAND (&) COMMANDS	
Type:	Immediate
Format:	AT [cmds] &\$ [cmds]
Description:	Displays all ampersand (&) commands

ANSWER MODE	
Type:	Configuration
Format:	AT [cmds] Bn [cmds]
Description:	Sets the protocol for answer mode
Command	Function
í B0	ITU-T V.25 answer mode enabled
B1	U.S. answer mode enabled

ARQ - BREAK LENGTH	
Type:	Register
Format:	AT [cmds] S21=n [cmds]
Default:	10
Range:	0-255
Unit:	.01 second
Description:	Sets the length of break

ARQ MODES	
Type:	Configuration
Format:	AT [cmds] &Mn [cmds]
Description:	Select the ARQ mode
Command	Function
&M0	Normal mode only enabled, ARQ error correction disabled
í &M4	Normal mode with ARQ error correction enabled
&M5	ARQ error correction only enabled

ARQ RESPONSE CODES	
Type:	Configuration
Format:	AT [cmds] &An [cmds]
Description:	Select which type of response code are displayed after connection
Command	Function
&A0	ARQ response disabled
&A1	ARQ response enabled
&A2	ARQ response with V.32 protocol enabled
í &A3	ARQ response with V.32, error correction, and data compression protocols enabled

BASIC COMMAND SET	
Type:	Immediate
Format:	AT [cmds] \$ [cmds]
Description:	Displays basic command set

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BIT MAPPED REGISTERS	
Register	Default
S13	0
S14	0
S15	0
S16	0
S27	0
S34	6
S51	0
S54	0
S55	0
S56	0

BREAK TYPE	
Type:	Configuration
Format:	AT [cmds] &Yn [cmds]
Description:	Configures action of break signal
Command	Function
&Y0	Buffers cleared, no break sent
í &Y1	Buffers cleared, break sent
&Y2	Send break immediately

COMPRESSION	
Type:	Configuration
Format:	AT [cmds] &Kn [cmds]
Description:	Selects data compression
Command	Function
&K0	MNP5 and V.42bis data compression disabled
í &K1	Auto data compression enabled
&K2	MNP5 and V.42bis enabled
&K3	MNP5 data compression disabled

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CONNECTION SPEED LOWER LIMIT	
Type:	Configuration
Format:	AT [cmds] &Un [cmds]
Description:	Sets slowest allowed connection speed
Command	Function
í &U0	No minimum speed enabled
&U1	Select 300bps minimum speed
&U2	Select 1200bps minimum speed
&U3	Select 2400bps minimum speed
&U4	Select 4800bps minimum speed
&U5	Select 7200bps minimum speed
&U6	Select 9600bps minimum speed
&U7	Select 12Kbps minimum speed
&U8	Select 14.4Kbps minimum speed
&U9	Select 16.8Kbps minimum speed
&U10	Select 19.2Kbps minimum speed
&U11	Select 21.6Kbps minimum speed
&U12	Select 24Kbps minimum speed
&U13	Select 26.4Kbps minimum speed
&U14	Select 28.8Kbps minimum speed
&U15	Select 31.2Kbps minimum speed
&U16	Select 33.6Kbps minimum speed

CONNECTION SPEED UPPER LIMIT	
Type:	Configuration
Format:	AT [cmds] &Nn [cmds]
Description:	Sets fastest allowed connection speed
Command	Function
í &N0	Automode enabled
&N1	Select 300bps maximum speed
&N2	Select 1200bps maximum speed
&N3	Select 2400bps maximum speed
&N4	Select 4800bps maximum speed
&N5	Select 7200bps minimum speed
&N6	Select 9600bps minimum speed
&N7	Select 12Kbps minimum speed
&N8	Select 14.4Kbps minimum speed
&N9	Select 16.8Kbps minimum speed
&N10	Select 19.2Kbps minimum speed
&N11	Select 21.6Kbps minimum speed
&N12	Select 24Kbps minimum speed
&N13	Select 26.4Kbps minimum speed
&N14	Select 28.8Kbps minimum speed
&N15	Select 31.2Kbps minimum speed
&N16	Select 33.6Kbps minimum speed

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CONFIGURATION PROFILE	
Type:	Configuration
Format:	AT [cmds] Yn [cmds]
Description:	Selects which profile the modem will use on power up or reset
Command	Function
i Y0	Profile 0 enabled
Y1	Profile 1 enabled

DATA SET READY (DSR)	
Type:	Configuration
Format:	AT [cmds] &Sn [cmds]
Description:	Selects DSR options
Command	Function
i &S0	DSR forced high
&S1	DSR high while modem is on-line and off in command mode

DIALING COMMANDS	
Type:	Immediate
Format:	AT [cmds] D\$ [cmds]
Description:	Displays dialing commands

DTE RATE	
Type:	Configuration
Format:	AT [cmds] &Bn [cmds]
Description:	Controls the action the DTE speed will take
Command	Function
&B0	After on-line, DTE speed follows DCE speed
i &B1	DTE speed constant
&B2	DTE speed constant in ARQ mode, DTE speed variable in non-ARQ mode

FACTORY DEFAULT PROFILE	
Type:	Configuration
Format:	AT [cmds] &Fn [cmds]
Description:	Sets values in active profile to values found in the default profile
Command	Function
&F0	Factory default profile 0
i &F1	Factory default profile 1, hardware flow control enabled
&F2	Factory default profile 2, software flow control enabled

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FLOW CONTROL - TRANSMIT	
Type:	Configuration
Format:	AT [cmds] &H <i>n</i> [cmds]
Description:	Selects the type of flow control used by the modem when transmitting
Command	Function
&H0	Transmit flow control disabled
í &H1	CTS flow control enabled
&H2	XON/XOFF flow control enabled
&H3	Both CTS and XON/XOFF flow control enabled

FLOW CONTROL - RECEIVE	
Type:	Configuration
Format:	AT [cmds] &I <i>n</i> [cmds]
Description:	Selects the type of flow control used by the modem when receiving
Command	Function
í &I0	Receive flow control disabled
&I1	XON/XOFF flow control enabled
&I2	XON/XOFF flow control enabled, XON/XOFF signals trapped by local modem
&I3	HP ENQ/AQK software flow control enabled in host mode
&I4	HP ENQ/AQK software flow control enabled in terminal mode
&I5	Software flow control enabled for non-AQR mode

FLOW CONTROL CHARACTER - XOFF	
Type:	Register
Format:	AT [cmds] S23= <i>n</i> [cmds]
Default:	19
Range:	0-127
Unit:	ASCII
Description:	Sets the character used to represent XOFF

FLOW CONTROL CHARACTER - XON	
Type:	Register
Format:	AT [cmds] S22= <i>n</i> [cmds]
Default:	17
Range:	0-127
Unit:	ASCII
Description:	Sets the character used to represent XON

INACTIVITY TIMER	
Type:	Register
Format:	AT [cmds] S19= <i>n</i> [cmds]
Default:	0
Range:	0-255
Unit:	1 second
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
I0	Reports product identification code
I1	Reports ROM checksum
I2	Tests internal memory
I3	Reports product ID
I4	Reports current command settings
I5	Reports stored and active profiles
I6	Reports link diagnostics
I7	Reports product configuration

RESULT CODES	
Type:	Configuration
Format:	AT [cmds] Qn [cmds]
Description:	Enables modem to send result codes to the DTE
Command	Function
í Q0	Result code sending enabled
Q1	Result code sending disabled
Q2	Result code sending enabled on originate mode

RTS/CTS	
Type:	Configuration
Format:	AT [cmds] &Rn [cmds]
Description:	Selects RTS/CTS options
Command	Function
&R0	Not used
&R1	CTS forced high, RTS is ignored.
í &R2	RTS flow control enabled

SOFT RESET	
Type:	Immediate
Format:	AT [cmds] Zn [cmds]
Description:	Restores modem profiles
Command	Function
Z0	Restore profile from ATY command
Z1	Restore profile 0
Z2	Restore profile 1
Z3	Restore factory default profile 0
Z4	Restore factory default profile 1
Z5	Restore factory default profile 2

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STATUS REGISTERS	
Type:	Immediate
Format:	AT [cmds] S\$ [cmds]
Description:	Displays all S-registers

STORE TELEPHONE NUMBER	
Type:	Configuration
Format:	AT [cmds] &Zn=(phone # & modifiers)
Description:	Writes selected telephone numbers into the non-volatile memory at location <i>n</i>
Command	Function
&Zn=L	Last dialed number stored at memory location <i>n</i>
&Zn?	Display stored number at memory location <i>n</i>
&ZL	Display last dialed number

V.32 - HANDSHAKE LENGTH	
Type:	Register
Format:	AT [cmds] S28= <i>n</i> [cmds]
Default:	8
Range:	0-255
Unit:	.1 second
Description:	Sets the length of time the modem handshakes in V.32 mode