MDP3880 56K PCI Modem

User's Manual

Version 1.0

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Chapter 1...

Introducing MDP3880-U

Thank you for buying the MDP3880-U 56K PCI Modem.

With MDP3880-U 56K PCI Modem, you can perform a comprehensive range of modemrelated functions including *data communications*, *sending and receiving of faxes*.

The intensive demands of today's Internet applications will no longer be a bottleneck. You can now download graphic-intensive web pages, high bandwidth audio and video files and large file size software programs at speeds of up to 56Kbps.

Chapter 2...

Before You Begin

This chapter contains information that you need to know before installing your modem. It is important that you go through them.

2.1 Package

Ensure that you have the following items in your package. For any missing items, please contact your dealer immediately.

- MDP3880-U Modem Card
- MDP3880-U Easy Start
- MDP3880-U Installation CD-ROM
- 1 telephone extension cable

2.2 Minimum System Requirements

- PC-based computer with Pentium® 166 processor
- PCI Bus slot
- 16MB RAM
- 10MB hard disk space (system files and modem drivers only)
- CD-ROM drive
- Windows[®] 95 / 98 / Me or Windows NT[®]4.0 / 2000

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2.3 Safety Precaution

- Do not remove your card from its protective bag until you are ready to install it.
- Always try to hold your card by its edges. Avoid touching any electronic components on your card.
- Static electricity can cause permanent damage to your card. To prevent such a damage, you must ground yourself while installing the card:
 - » Use a grounding strap, which is a coiled wire with a clip at one end and an elastic strap at the other. Wear the strap around your wrist and attach the clip to any non-painted metal surface of your computer's chassis.
 - » If you do not have a grounding strap, touch any non-painted surface of the computer's chassis before you begin installation, and again every minute or so until the installation is completed.

2.4 Installation Notes

- The graphics and screen shots shown in this manual may differ from what you see in your system, but the steps still apply.
- A Philips-type screwdriver is required for your card installation.
- The documentation for your computer should come in handy during the installation. Have it ready by your side.
- If you have an existing *non-Plug-and-Play* modem installed in your computer, you must first un-install its modem drivers before you remove the modem. Refer to your existing documentation for more details on this.

If your existing modem is *Plug-and-Play*, you may proceed to install your new modem.

Chapter 3...

Setting Up Your Modem

This chapter guides you on connecting your modem to your computer as well as connecting your phone line for Internet access.

3.1 Installing Your Modem



You need to remove any existing modem installed in your computer. Note that if the modem is non-Plug-n-Play, you need to un-install its modem driver before you remove it. Check your existing modem documentation for details on this.



Power off your computer and any connected devices before installing your modem!



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This completes your modem card installation. Please proceed to the next section to connect the card for Internet access.

3.2 Connecting Your Modem for Internet Access





Connect a telephone set to the PHONE jack of the modem card.

(This optional connection eliminates the need to switch between your telephone set and your modem if they are sharing the same telephone wall socket.)

2 Connect one end of the **telephone extension cable** to the **LINE jack** of your modem and the other end to the **telephone wall socket**.

This completes the setting up of your modem. Please proceed to the chapter to install your modem driver.

Chapter 4...

Installing Your Modem Driver

This chapter guides you step-by-step with screen shots on how to install the modem driver required to run your modem. Operating systems described are Windows® 95, 98, Me, Windows NT® 4.0 and 2000.



The screen shots and screens information illustrated in this manual serve only as a guide. The exact information you see on your system may vary, depending on your system configurations. For any dissimilarities, follow closely to the instructions as prompted on your PC screen !

4.1 Installing Your Modem Driver -For Windows[®] 95

1. Power on your computer to start Windows. Windows will detect your newly-installed modem and an **Update Device Driver Wizard** window will appear.

Update Device Driver Wizard				
	This wizard will complete the installation of:			
	PCI Communication Device			
	by searching your local drives, network, and Internet locations for the most current driver.			
	If you have a disk or CD-ROM that came with this device, insert it now.			
	It is recommended that you let Windows search for an updated driver. To do this, click Next to continue.			
 				
	< Back Cancel			

Place your **Installation CD** into your CD-ROM drive drive and click **Next**.

Update Device Driver \	∜izard
	Windows found the following updated driver for this device: MDP3880 PCI Modem Enumerator If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations. Location of Driver
~	Other Locations
	< Back Finish Cancel

\otimes	Please insert the disk labeled 'MDP3880 Installation Disk', and then cl			
Copying	Files	X		
copying	riles			
_	The file 'atcomset.do_' on MDP3880 Installation Disk could not be found. Insert MDP3880 Installation Disk into the drive selected below, and click DK.	OK Cancel		
		<u>S</u> kip File		
		Datalla		
	Copy files from:	Details		
	D:\win9x	Browse		

Insert Disk

 Windows will now prompt you that the modem driver has been found.
 Click Finish to proceed.

- 3. When the **Insert Disk** window appears, click **OK**.
- The Copying Files... window will appear.
 Click Browse and navigate to 'Win9x' directory on your CD-ROM and click OK.

This completes the installation of the modem driver in Windows[®] 95. You may now proceed to the next chapter to verify your modem.

X

OK.

4.2 Installing Your Modem Driver -For Windows[®] 98

1. Power on your computer to start Windows. Windows will detect your newly-installed modem and an Add New Hardware Wizard window will appear.

Add New Hardware Wiz	ard
	This wizard searches for new drivers for:
	PCI Communication Device
	A device driver is a software program that makes a hardware device work.
🍣 🌫	
×	
	< Back Next > Cancel

Place your **Installation CD** into your CD-ROM drive and click **Next**.

2. The next window prompt will ask for your modem driver. Click the option 'Search for the best driver for your device (Recommended).' and click Next.

Add New Hardware Wizard				
	What do you want Windows to do? C Search for the best driver for your device. [Recommended]. Display a list of all the drivers in a specific location, so you can select the driver you want.			
	< Back Next > Cancel			



This completes the installation of the modem driver in Windows $^{\ensuremath{\circledast}}$ 98. You may proceed now proceed to the next chapter to verify your modem.

4.3 Installing Your Modem Driver -For Windows[®] Me

1. Power on your computer to start Windows. Windows will detect your newly-installed modem and an Add New Hardware Wizard will appear.

Add New Hardware Wiz	eard and a second s
	Windows has found the following new hardware: PCI Communication Device Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next. What would you like to do? Automatic search for a better driver (Recommended) Specify the location of the driver (Advanced)
	< Back Next > Cancel

Place your Installation CD into your CD-ROM drive. Select the option 'Specify the location of the driver (Advanced)' and click Next.

 Select Specify a location. Click Browse and navigate to '\WinME' directory on your CD-ROM and click Next.



3. Windows will prompt that it has located the driver. Click **Next** to start the driver installation.



4. Allow some time for Windows to install the driver. Upon completion, click Finish.

Add New Hardware Wizard				
	MDP3880 PCI Modem Enumerator Windows has finished installing the new hardware device.			
	< Back Finish Cancel			

This completes the installation of the modem driver in Windows $^{\mbox{\tiny $^{\odot}$}}$ Me. You may now proceed to the next chapter to verify your modem.

4.4 Installing Your Modem Driver -For Windows NT[®] 4.0

- 1. Power on your computer to start Windows. Place your **Installation CD** into your CD-ROM drive.
- 2. From the Windows taskbar, click Start > Run....
- 3. From the dialog box, click **Browse** and navigate to **'Winnt4'** directory on your CD-ROM. Select the file **setup.exe** and click **OK**.
- 4. From the Modem Board Installation Wizard, click Next to install the driver.
- 5. Click Next to proceed.
- 6. To complete the driver installation, click **Finish** and restart your system.

This completes the installation of the modem driver in Windows NT[®] 4.0. You may now proceed to the next chapter to verify your modem.

4.5 Installing Your Modem Driver -For Windows[®] 2000

1. Power on your computer to start Windows. Windows will detect your newly-installed modem and a Found New Hardware Wizard will appear. Click Next.



If 'New Hardware Found Wizard' is not prompted when you power up your system, carry out the following steps to install your modem driver. Otherwise, please continue from step 2.

- a. From your Windows taskbar, click **Start** > **Settings** > **Control Panel**. Double-click **System** icon.
- b. Select the Hardware tab and click Device Manager button.
- c. From the list of devices, double-click on Modem. You will see HCF 56K PCI Modem listed. Double-click on it and select the Driver tab.
- d. Place your **Installation CD** into the CD-ROM drive and click the **Update Driver...** button.
- e. From the Update Device Driver Wizard, click Next.
- f. Accept the default settings and click Next.
- g. Specify your driver location and click Next.
- h. Click Next again to begin the driver installation.
- i. To complete the installation, click **Finish** when prompted.

This completes the installation of the modem driver in Windows[®] 2000. You may now proceed to the next chapter to verify your modem.

2. Place the Installation CD into your CD-ROM drive. Select the option 'Search for a suitable driver for my device (recommended)' and click Next.

ound New Hardware Wizard				
Install Hardware Device Drivers A device driver is a software program an operating system.	that enables a hardware device to work with			
This wizard will complete the installation	on for this device:			
HCF 56K PCI Modem				
	that makes a hardware device work. Windows To locate driver files and complete the			
What do you want the wizard to do?				
Search for a suitable driver for	my device (recommended)			
Display a list of the known drive driver	ers for this device so that I can choose a specific			
dive				
	<back next=""> Cancel</back>			
	Where do you want Windows to search for driver files?			
	Search for driver files for the following hardware device:			
	BY HCF 56K PCI Modem			
3. Click the option	*			
Specify a location'. Click Next.	The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.			
CIICK Next.	To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.			
	Optional search locations:			
	Floppy disk drives CD-ROM drives			
	Specify a location			
	Microsoft Windows Update			
	< Back Next >			
Hardware Wizard	×			
Insert the manufacturer's installation disk into the selected, and then click ÜK.	4. Click Browse and navigate to 'Win2000' directory on your CD ROM and click OK.			

Browse ...

•

Found

Copy manufacturer's files from: D:\Win2000 5. Click Next again to proceed installation with the driver found.



- You may be prompted with New Signature Not Found dialog box, This occurs when Windows detected a newer version of your driver. Click Yes to proceed.
- 6. At the following prompt, click **Finish** to complete the installation.



This completes the installation of the modem driver in Windows[®] 2000. You may now proceed to the next chapter to verify your modem.

Chapter 5...

Verifying Your Modem

This chapter guides you on how to verify if your modem has been installed successfully. Operating system described are Windows[®] 95, 98, Me, Windows NT[®] 4.0 and 2000.

5.1 Verifying Your Modem -For Windows[®] 95/98/Me



The testing procedures for Windows $^{\circ}$ 95, 98 and Me are similar. The following illustrates based on Windows $^{\circ}$ Me. For any dissimilarities, follow closely to the instructions as prompted on your PC !

1. From your Windows taskbar, click **Start** > **Settings** > **Control Panel**. Double-click on the **Modems** icon.

5 — Verifying Your Modem

Modems Properties	<u>? ×</u>	2. Click	k the Diagn	ostics tab.
	dems are set up on this computer:	7)	
MDP3880 56K PCI Mo Add Dialing preferences Dialing from: New Loi Click Dialing Propertie: dialed. D	Jeam Modems Properties General Diagnostics Image: Strate S	m		Select the COM Port that your modem is connected to.
		More In		
	Driver	Helf Po Inte Ad	errupt: 10 Idress: D000	550AN
	Close		23880 56K PCI Modem	
TI	on the More Info butto ne More Info window w appear, showing a list of <i>I</i> mmands. This means th	n. A' rill A' AT	TI4 MDP3880 TI5 180 TI6 DP Rev E V90 SF V90 CT	4.013.003.002 9.56K PCI Modern
your m	nodem is now ready to ru			ОК
	Click O	K		•

(The information shown here may differ from what you see on your computer)

(For modems that are not installed properly, the set of AT commands will not be listed. You may also be prompted by an error message, stating that it was unable to open the COM Port. If this happens, refer to **Troubleshooting Guide** "While testing the modem, the system gave an error message stating that it was unable to open the COM Port")

This completes the verification of your modem driver in Windows[®] 95/98/Me. You may now refer to the documentation from your Internet Service Provider (ISP) on how to establish the connection to the Internet.

5.2 Verifying your Modem - For Windows NT[®] 4.0

- 1. From the Windows NT[®] taskbar, click **Start** > **Programs** > **Accessories** > **HyperTerminal** > **HyperTerminal**.
- 2. From the following dialog box, key in the required information and click Close.
- 3. Enter any name for the new connection and click **OK**.
- 4. Enter any phone number in the dialog box. Make sure that the **MDP3880 56K PCI Modem** is selected and click **OK**.
- 5. At the following prompt, click **Cancel**.
- 6. At the following window, type "AT" and press Enter. You should see a response, OK.

This completes the verification of your modem driver in Windows NT° 4.0. You may now refer to the documentation from your Internet Service Provider (ISP) on how to establish the connection to the Internet.

5.3 Verifying Your Modem - For Windows® 2000

- 1. From the Windows taskbar, click **Start** > **Settings** > **Control Panel**. Double-click on the **Phone and Modem Options** icon.
- 2. Click the Modems tab. Click your newly installed MDP3880 56K PCI Modem and click Properties.

Phone And Modem Options	
Dialing Rules Modems Advanced	
The following modems are installed: Modem Attached To	4. Select the Diagnostics tab.
MDP3880 56K PCI Modem COM3	tab.
Í	
	MDP3880 56K PCI Modem Properties
	General Diagnostics Advanced
	Port: COM3
Add <u>B</u> emove <u>Properties</u>	Off On
OK Cancel Apply	
	Maximum Port Speed
MDP3880 56K PCI Modem Properties ? X	115200
General Diagnostics Advanced	
Field Value	Dial Control
Hardware ID PCIVVEN_14F1&DEV_1033&SUBSYS_40301	Wait for dial tone before dialing
Command Response	OK Cancel
	5. Click on the Query
Query Modem	5. Click on the Query Modem button.
Logging Append to Log View log	Button.
OK Cancel	1

A list of AT commands will be displayed. This means that your modem is successfully installed. Click **OK**.

MDP3880 56K PCI Modem Properties	? ×
General Diagnostics Advanced	
Modem Information	
Field Value Hardware ID PCI/VEN_14F1&DEV_1033&SUBSYS	_40301
•	•
Command Response ATQ0V1E0 0K AT+6MM +GMM: MDP3880 56K PCI Modem AT+FCLASS=? 0,1 AT#CLS=? C0MMAND NOT SUPPORTED AT11 N/A	×
Query	Modem
Logging View View	w log
ОК	Cancel

(The information shown here may differ from what you see on your computer.)

(For modems that are not installed properly, the set of AT commands will not be listed. You may also be prompted by an error message, stating that it was unable to open the COM Port. If this happens, refer to **Troubleshooting Guide** "While testing the modem, the system gave an error message stating that it was unable to open the COM Port".)

This completes the verification of your modem driver in Windows NT^{\circledast} 4.0. You may now refer to the documentation from your Internet Service Provider (ISP) on how to establish the connection to the Internet.

Chapter 6...

Uninstalling Your Modem Driver

6.1 Uninstalling Your Modem Driver - For Windows[®] 95 / 98 / NT[®] 4.0

- 1. From the Windows taskbar, click **Start** > **Settings** > **Control Panel**. Double-click on the **Add/Remove Programs** icon.
- 2. Select MDP3880 56K PCI Modem and click Add/Remove.
- 3. Follow any on-screen instructions to complete the uninstallation process.

6.2 Uninstalling Your Modem Driver • For Windows[®] Me

- 1. From your Windows desktop, right-click on the My Computer icon and select Properties.
- 2. Click Device Manager tab and double-click Modem.
- 3. Select MDP3880 56K PCI Modem and click Remove.
- 4. Again from the **Device Manager** tab, double-click **HCFMODEMWDM**.
- 5. Select MDP3880 PCI Modem Enumerator and click Remove.
- 6. Follow any on-screen instructions to complete the uninstallation process.

6.3 Uninstalling Your Modem Driver - For Windows[®] 2000

- 1. From your Windows desktop, right-click on the My Computer icon and select Properties.
- 2. Select Hardware tab and click Device Manager button.
- 3. Double-click on Modem. Right-click on MDP3880 56K PCI Modem and select uninstall.
- 4. Follow any on-screen instructions to complete the uninstallation process.

Appendix A...

Frequently Asked Questions

This chapter provides the answers to the commonly asked questions on your modem.



What is V.90 ?

V.90 is a new standard approved by the International Telecommunication Union for "56K" analog modems. It is a compromise officially reached between the two competing standards - X2 (from 3COM/USR) and K56Flex (from Rockwell/Lucent).



Why am I not able to connect at 56Kbps ?

You will not get exactly 56Kbps due to:

1. The quality of your phone line

Like all data connection, the connection is sensitive to the amount of noise present in the phone line. Only very "clean" phone line can get high connection rate or throughput. If you hear faint hum over the phone, you properly have a "noisy" phone line. You may want to check with your phone company to improve the quality of your line or change to a new line.

2. Interference

If your phone line is connected to the modem via a surge protector, try it without the surge protector. Most surge protector will interfere with modem communications.



How do I see the resources listings ?

Windows 95/98/Me

- 1. From the Windows taskbar, click **Start > Settings > Control Panel**. Doubleclick on the **Modems** icon.
- Click the Diagnostics tab. Select your product model and click More Info... option.

The IRQ (Interrupt) and memory range (Address) used by the modem will be listed.

Windows NT 4.0

- 1. From the Windows taskbar, click Start > Programs > Administrative Tools (Common) > Windows NT Diagnostics.
- 2. From the Diagnostics Window, click Resources tab followed by Devices tab.
- 3. Double-click Serial.

The IRQ and memory range used by the modem will be listed.

(The COM Port and IRQ are assigned automatically by the Operating System during installation. Both the COM Port and IRQ settings cannot be changed by the user)

Windows 2000

- 1. From your Windows desktop, right-click on My Computer icon and click Properties.
- 2. Select the Hardware tab and click Device Manager button.
- 3. Double-click on the **Modems** device. Right-click on your modem model and select **Properties**.
- 4. Select the Resources tab.

The IRQ (Interrupt) and memory range (Address) used by the modem will be listed.



I am using my system with the modem card in another country. Is there any settings that need to be changed ?

Yes. You need to ensure that the country setting for your modem card is correct for your location. Carry out the following steps:

Windows 95/98

- 1. From Windows[®] 95/98 desktop, right-click on My Computer icon and click Properties.
- 2. Click **Device Manager** tab and double-click on **Modem**.
- 3. Select your product model and click Properties.
- 4. Click Country Select tab and select your current local country and click OK.

Windows Me

- 1. From the Windows taskbar, click **Start** > **Settings** > **Control Panel**. Doubleclick on the **Telephony** icon.
- From My Location tab, click on the drop-down list from the field 'I am in this country/region'. Select your current local country and click OK.

Windows NT 4.0

- 1. From the Windows taskbar, click **Start** > **Settings** > **Control Panel**. Doubleclick on the **HCF Modem Country Select** icon.
- 2. Select your modem from the drop-down list and select your current local country.

Windows 2000

- From your Windows taskbar, click Start > Settings > Control Panel. Doubleclick on the Phone and Modem Options icon.
- 2. From the **Dialing Rules** tab, click **Edit**.
- At the Country/region field, select your current local country from the dropdown list. Click Apply, followed by OK.

Appendix B...

Troubleshooting Guide

This chapter provides a step-by-step solutions to problems that you may encounter when using your modem.



The modem hangs up when an incoming call is received.

Disable the Call Waiting function for the Online Service, Internet Connection and/or communications software you are using.



When I tried to dial out, the system gave me an error message 'No Dial Tone'.

Check the connection of your telephone cable. Make sure that you have it connected as shown in section 3.2 - Connecting Your Modem for Internet Access. If necessary, plug out and plug in the telephone cable again.



There are incomprehensible characters appearing on the screen.

The data, parity and stop bit settings are incorrect. Try using the default values or check with your Internet Service Provider.



Windows does not detect my modem when I power on my system for driver installation. (For Windows® 95/98/Me/2000)

Make sure your modem is fully inserted into the **PCI Bus slot**. (See section 3.1 - Installing Your Modem.)

For Windows[®] 2000 users, you may also refer to the solution for question 'New Hardware Found Wizard' is not prompted when I power on my system for driver installation.



The Modem Board Installation Wizard says 'the driver could not be installed'. (For Windows NT^{B} 4.0)

Make sure your modem is fully inserted into the **PCI Bus slot**. (See section 3.1 - Installing Your Modem.)



My system does not detect my modem after my modem driver installation.

Carry out the following:

Windows 95/98/Me

- From the Windows taskbar, click Start > Settings > Control Panel. Doubleclick the System icon.
- 2. Click the Device Manager tab.



 Double-click on the Modem device. Check whether there is any yellow exclamation mark (error) on your modem. If yes, select the modem and click Remove. Re-install the modem driver (Chapter 3 - Installing Your Modem Driver).

Windows NT 4.0

Not applicable.

Windows 2000

- 1. From your Windows taskbar, click **Start** > **Settings** > **Control Panel**. Double-click **System** icon.
- 2. Select the Hardware tab and click Device Manager button.
- Double-click on the Modem device. Check whether there is any yellow exclamation mark (error) on your modem. If yes, select the modem and click Remove. Re-install the modem driver (Chapter 3 - Installing Your Modem Driver).



- 'New Hardware Found Wizard' is not prompted when I power on my system for driver installation. (For Windows® 2000 only)
- 1. From your Windows taskbar, click **Start** > **Settings** > **Control Panel**. Double-click **System** icon.
- 2. Select the Hardware tab and click Device Manager button.
- From the list of devices, double-click on Modem. You will see HCF 56K PCI Modem listed. Double-click on it and select the Driver tab.
- 4. Place your **Installation CD** into the CD-ROM drive and click the **Update Driver...** button.
- 5. From the Update Device Driver Wizard, click Next.
- 6. Accept the default settings and click Next.
- 7. Specify your driver location and click Next.
- 8. Click **Next** again to begin the driver installation.
- 9. To complete the installation, click **Finish** when prompted.



While testing the modem, the system gave an error message saying it was unable to open the COM Port. (For Windows[®] 95/98/Me)

Make sure that you have closed all communication software (e.g. HyperTerminal, Dial-up Networking, etc.) when you are doing the diagnostics test.

However, if there is no communications software running, do the following:

- 1. From the Windows taskbar, click **Start** > **Settings** > **Control Panel**. Doubleclick the **System** icon.
- 2. Click the **Device Manager** tab.
- 3. Check whether there is any yellow exclamation mark on the modem device. If yes, select the modem and click **Remove** to remove the modem device. Re-install your modem driver as described in **Chapter 4 - Installing Your Modem Driver**.



I have done a diagnostics test of my modem and there is nothing wrong with it. However when I use a communications software, there seems to be an error. Why ?



Try to use **Microsoft Fax** to fax a document. If the sending of a fax is successful, then the **fax function** of your modem is working fine.

Try to use **HyperTerminal** to dial up to a BBS. If the connection is successful, then the **data function** of your modem is working fine.

Try exiting the communications software and running it again.

Appendix C...

Technical Specifications

This chapter contains the technical information on your card. It may be more useful for technically inclined users.

C.1 Drivers support

- Windows[®] 95, 98, Me
- Windows NT[®] 4.0, 2000
- TAPI compliant

C.2 Integrated 56000BPS Data/Fax Modem

Modem Standards

V.90 56Kbps, K56Flex 56Kbps, V.34+, V.34, V.32bis, V.32, V.23, V.22bis, V.22 A/B, V.21, Bell 212A, Bell 103

- Modem Data Rates (DCE)
 56Kbps (download speed from Internet Service Provider)
 33.6Kbps 300bps
- Data Throughput (DTE)
 Up to 115.2Kbps (with compression)
- Error Correction V.42 and MNP2-4

- Data Compression V.42bis and MNP5
- Fax Modulations
 V.17, V.29, V.27ter, V21 channel 2 group 3 fax mode
 - PCI Interface PCI 2.1 Interface, PCI Plug and Play, PCI Power Management (Wake-Up on Ring through PCI PME# support*)
- Auto dialing and auto answer
- · Line quality monitoring and re-train
- Tone or pulse dialing
- DAA Line Interface
- Audio Span: V.61 (Simultaneous Voice Data)
- Enhance AT, and Class 1 fax commands
- Buzzer on-board

C.3 Interfaces

External Connectors

- 1 x RJ11 Telephone socket for telephone line
- 1 x RJ11 Telephone socket for telephone handset

C.4 Environmental

Temperature

Operating: 10 to 45 degrees Celsius (50 to 113 degrees Fahrenheit) **Non-Operating:** -25 to 70 degrees Celsius (-13 to 158 degrees Fahrenheit)

• Humidity

Operating: 30% to 80% Relative Humidity (non-condensing) **Non-Operating:** 10% to 95% Relative Humidity (non-condensing)



The product specifications herein are subject to change without prior notifications.

* only if your system supports ACPI Power Management