RD01-D850

Modem Card

Quick Start Guide

Please Read First

Version 1.0

The information in this manual is subject to change without prior notification. Despite every care being taken in its production, we cannot rule out the possibility that this manual may contain errors or omissions. No liability whatsoever is accepted for errors or loss of data as a consequence of this. The illustrations are intended solely to improve understanding. They do not necessarily match the screens on your system exactly in every case. The data for devices, drivers and remarks in the illustrations are provided as examples.

IMPORTANT

Before installing the modem card, make sure that the PC is switched off and that the power cable is not connected. When working on the modem card, make sure that the PC is switched off, the power cable is not connected and the telephone line is not connected to the modem card.

DECLARATION OF COMPATIBILITY WITH EUROPEAN NETWORKS

This product is suitable for use in public telephone networks in Great Britain, Ireland, the Netherlands, Sweden, Denmark, Finland, Switzerland, Luxembourg, Belgium, France, Germany, Spain, Portugal, Iceland, Greece, Italy, Norway and Austria.

Under certain circumstances problems may occur when the device is used with public telephone networks in other countries. Contact your dealer if you wish to use the device in another network.

Electrical Safety

Before installing this device, make sure that the current consumption of this card plus that of the host and any other cards does not exceed the nominal value of the host power supply.

Exception for the connections to the host, device installation must observe the safety distances and the creepage distances specified in the table below between the card and other cards, which use or generate power.

The distances provided in brackets apply if the host environment is subject to conductive impurities or dry non-conductive impurities, which can become conductive due to condensation. The device approval is invalidated if these minimum distances are not observed.

Safety Distance	Creepage Dist (mm)	Power Generated or Used by Host or Other Cards
2.0	2.4 (3.8)	Up to 50 Vrms or V DC
2.6	3.0 (4.8)	Up to 125 Vrms or V DC
4.0	5.0 (8.0)	Up to 250 Vrms or V DC
4.0	6.4 (10.0)	Up to 300 Vrms or V DC

"The analogue telecommunications interface is designed for connection to telecommunications network lines, which can carry hazardous voltages (TNV - Telecommunications Network Voltage). To protect the installation engineer, the telephone line must only be connected to the telecommunications system once the card has been installed in a host.

If the host device has to be opened for any reason, the telephone line, which carries the above mentioned voltages, must be disconnected from the device before accessing any internal components."
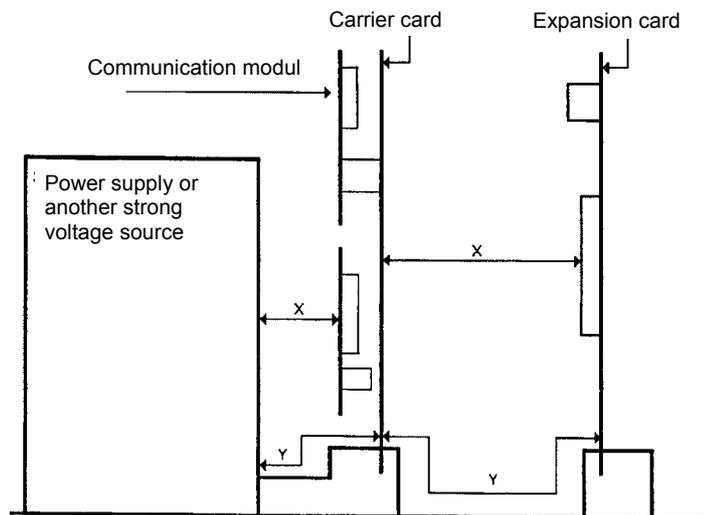
Safety levels of the individual connections:

• Telephone connector = TNV3

• PCI connector = SELV

This data is valid in accordance with safety standard EN60950/A4:

• TNV3: Telecommunications Network Voltage

• SELV: Safety Extra Low Voltage

With the exception of the connector, which is plugged into the host expansion slot, the safety distances (X mm) and the creepage distances (Y mm) specified in the table above must be observed between the telecommunications card and other components, which generate or use hazardous voltages.

The product warranty excludes damage caused by lightning, voltage jumps or incorrect use of the power source.

Notes on Approval in Europe

The device is approved according to CTR21. The following declaration applies to this product:

"This device has been approved in accordance with ruling 98/482/EC of the European Council for connection as an individual piece of data terminal equipment in public telephone networks. As public telephone networks differ from country to country, this approval does not guarantee that the device will operate correctly at each terminal connection point in a network.

In the event of problems during operation, contact your specialist dealer."

Declaration of Network Compatibility

This product is suitable for use in public telephone networks in Great Britain, Ireland, the Netherlands, Sweden, Denmark, Finland, Switzerland, Luxembourg, Belgium, France, Germany, Spain, Portugal, Iceland, Greece, Italy, Norway and Austria.

As part of further technical development, this product can also be certified in other countries, including non-EU member states.

These instructions provide information on the installation of the modem. They include general procedures to be carried out during installation. They can be used to set up the modem in just a few minutes.

INSTALLATION INSTRUCTIONS

- The data/fax modem card supports the Plug & Play standard. Even though the modem card can be used in virtually all systems, it should be installed on a computer that supports Plug & Play.

- Computers differ with regard to their type and configuration. The installation instructions in this section are therefore of a general nature. Compare the illustrations in the manual with your computer.
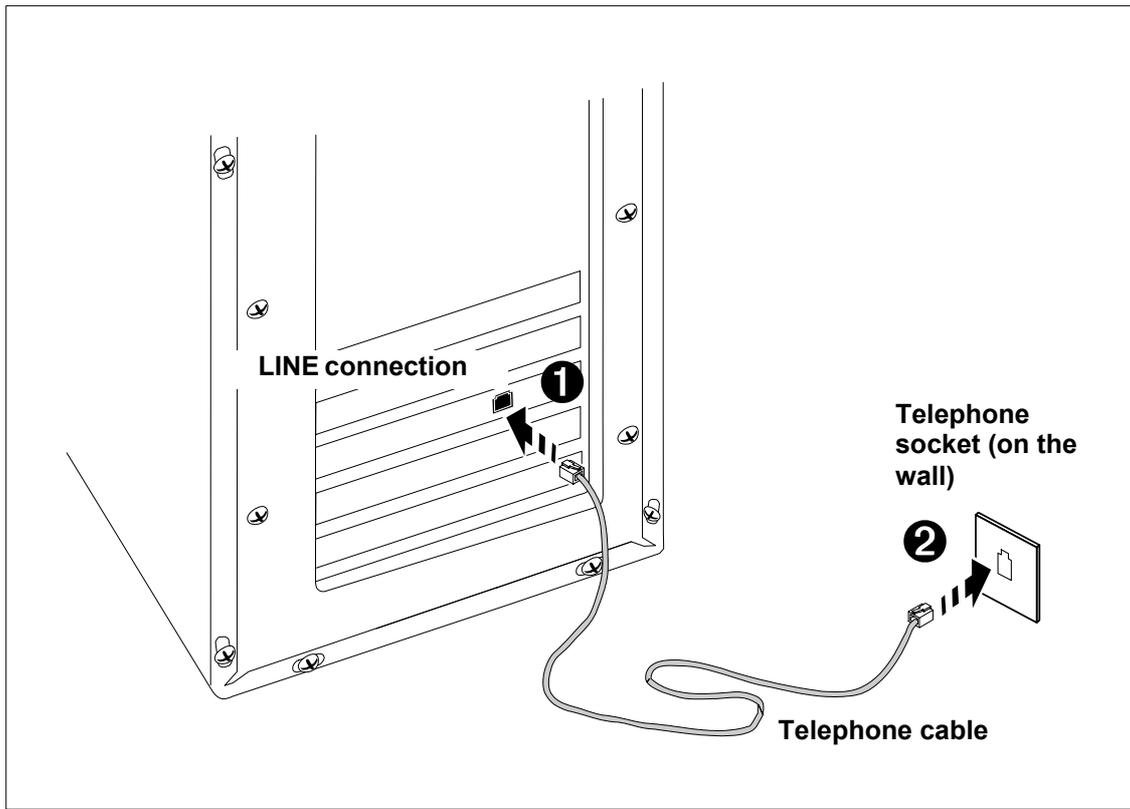
CONNECTING THE MODEM CARD

Step 1

Connect one end of the telephone cable to the modem card.

Step 2

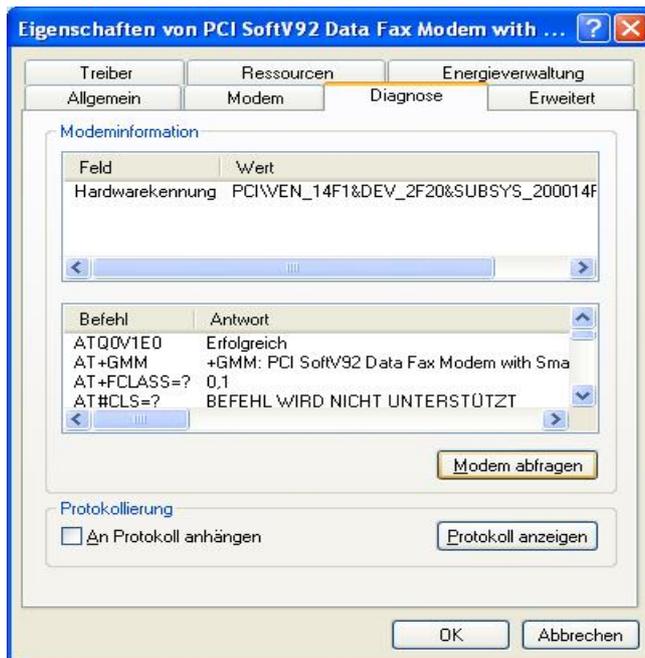Connect the other end of the telephone cable to the telephone socket (on the wall).

LINE connection

Telephone socket (on the wall)

Telephone cable

INSTALLING THE MODEM DRIVERS

The modem drivers are already installed on your computer.
For instructions on installing drivers for the first time, please refer to the manuals for your computer.

TESTING THE MODEM CARD

Windows® XP

1. In the Windows taskbar, click on **Start** > **Control Panel**. Click on the **Printers and Other Hardware** icon. Click on the **Phone and Modem Options** icon.
2. Click on the **Modems** tab.
3. The PCI SoftV92 Data Fax Modem with SmartCP is listed in the dialog box. Click on the modem and select **Properties.**
4. Click on the **Diagnostics** tab.
5. Click **Get Modem**.
6. A list of AT commands is displayed (see below). This means that the modem has been installed correctly. Click **OK**.

(Some information may appear differently on your computer.)

7. If the modem has not been installed correctly, no AT commands will be listed. An error message may also be displayed, indicating that the COM connection could not be opened. Uninstall then reinstall the drivers.

COUNTRY CODE

Make sure that the country code is correct for your location. It may be that the country code has been automatically adapted to the language version of your operating system. If so, you may need to manually select the appropriate setting for your location. To view the current settings, proceed as follows:

Windows® XP

1. In the Windows taskbar, click on **Start** > **Control Panel**.
2. Click on the **Printers and Other Hardware** icon. Click on the **Phone and Modem Options** icon.
3. In the **Dialing Rules** tab, click **Edit** under **My Location**.
4. Under **Country/region**, select the appropriate country for the connection and click **OK**.

UNINSTALLING THE MODEM CARD

1. In the Windows taskbar, click on **Start** > **Control Panel**.
2. Click on the **Add or Remove Programs** icon.
3. The installed modem is listed under the **Change or Remove Programs** menu item.
4. Select your modem and click **Remove**.

Follow the on-screen instructions.

TECHNICAL FEATURES

Properties
- 32-bit PCI 2.2 interface
- ITU-T V.92*, V.90 data/fax soft modem
- Backward compatible to K56Flex, V.34 and lower speed
- Advanced Power Management feature
- Wake-up on-ring feature thru PCI bus
- Parallel Handset Detection
- Microsoft PC 2001 compliant
- CE 2001 compliant
- Lightning surge protection

MODEM Standards
- V.92* : 56 kbps
- V.90 : 56 kbps
- K56flex : 56 kbps
- V.34bis : 33.6 kbps
- V.34 : 28.8 kbps
- V.32bis : 14.4 kbps
- V.32, V.23, V.22bis, V.22
- Bell 212A, Bell 103

Data Compression
- V.44
- V.42bis, MNP 5

Error Correction
- V.42, LAPM, MNP 2-4

*V.92 functions depend on the ISP.

FAX Standards
- V.17 : 14.4 kbps
- V.29 : 9,600 bps
- V.27ter : 4,800 bps

FAX CONTROL/Protocol
- Class 1.0 commands, V.21 Channel 2
- Group 3 fax mode
- EIA/TIA 578 Class 1 and T.31

For VIDEO Conferencing
- H.324, ITU V.80 video-ready modem interface

PTT Approval
- CTR21

EMC & SAFETY Approvals
- CE
- TÜV
- CB

Connections
- 1 x RJ-11 telephone socket for wall (phone splitter required for connection to telephone)

System Requirements
- Pentium 233 MHz MMX PCs using Intel or AMD CPUs
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