

<u>Instructions when using for the first time</u>	Chapter	!	UK
1. Installing the software	(3.1)		
2. Connecting	(3.2)		
3. Checking after the installation	(3.3)		

1 Introduction

This instruction manual is for users of the TRUST N12M USB NETWORK LINK. Some knowledge of networks is recommended to install and use this product. The TRUST N12M USB NETWORK LINK allows you to connect two computers to each other so that you can share folders, files and printers. If one of the computers is connected to a network (broadband Internet), then this network can also be accessed via the N12M USB NETWORK LINK.

2 Safety

Carefully read the following instructions before use:

- The TRUST N12M USB NETWORK LINK does not require any special maintenance. Use a slightly damp, soft cloth to clean the device.
- Do not use aggressive substances, such as petrol or white spirit, to clean the device. These may harm the material.
- Do not submerge the device in liquid. This may be dangerous and will damage the device. Do not use this device near water.
- Make sure nothing is placed on the cable. Do not use this device in an area where the cable can become worn or damaged as a result of people walking over it.
- Do not repair this device yourself.

3 Installation

3.1 Installation in Windows 98 / Windows ME / Windows 2000 / Windows XP

- Note:** *The latest driver can be downloaded from www.trust.com/12922. Check whether a new driver is available and use this for the installation. The current version of the driver is included on the Trust Installation CD-ROM.*
- Note:** *Make sure all other programs are closed during the installation.*
- Note:** *During installation in Windows XP, you may receive a message saying that the driver has not been signed. This does not cause a problem for the functionality.*
- Note:** *In the example, 'D:\' is used to indicate the CD-ROM drive. This may be different for your computer.*

TRUST N12M USB NETWORK LINK

1. Insert the CD-ROM into your CD-ROM drive. The Trust Software Installer will start automatically. If it does not start automatically, carry out the following:
 - a) Select 'Run' from the Start menu.
 - b) Type [D:\SETUP.EXE] and click on 'OK' to start the Trust Software Installer.
2. Figure 1 will appear.
3. Click on the language you wish to use for the installation.
4. Click on 'N12M USB NETWORK LINK' to start the installation.
5. Follow the on-screen instructions.
6. When figure 2 appears, it will be possible to install the USB-USB Bridge Protocol. You only need to install this if the computer on which the N12M USB NETWORK LINK will be installed is connected to a network by means of a network card. It will then also be possible to access this network via the N12M USB NETWORK LINK. If you do not wish to access this network or if the computer on which the N12M USB NETWORK LINK will be installed does not have a network card, select 'No'.
7. When figure 3 appears, you can choose to specify an IP address for the N12M USB NETWORK LINK yourself by clicking on 'Yes'. Select 'No' if you do not wish to do so.

3.2 Connecting in Windows 98 / Windows ME / Windows 2000 / Windows XP

Note: For certain versions of Windows, you may be requested to insert your Windows CD-ROM into your CD-ROM drive. Make sure you have your Windows CD-ROM available.

1. Connect one of the USB plugs to your computer's USB port.
2. Windows will detect the N12M USB NETWORK LINK and the Installation Wizard will start.
3. Follow the on-screen instructions. Insert your Windows installation CD-ROM into your CD-ROM drive if requested.

3.3 Checking after the installation

After installing the device and the driver, the following are installed on your computer and can be checked:

- 'Start - Settings - Control Panel'. Double-click on the 'System' icon and select the 'Device Manager' tab.
- Network adapters - N12M USB NETWORK LINK version 1.0 adapter
- Universal Serial Bus Controllers - N12M USB NETWORK LINK version 1.0 adapter
- 'Start - Settings - Control Panel' and then double-click on the 'Add/Remove Programs' icon.
- N12M USB NETWORK LINK version 1.0 adapter

Note: The information given above will vary when the installation has been altered by the user (for example, not everything has been installed or locations other than the default locations have been selected).

Note: Deviations may also occur as a result of using new drivers available on the Internet.

Note: The location or name may vary in the 'Control Panel' for different operating systems.

4 Network settings in Windows 98 / Windows ME

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This chapter gives a short description of the network settings in Windows 98 and Windows ME. Procedures are not described in detail, however. See the Windows 98 or Windows ME instruction manual and Online Help for more information.

4.1 Games and Network

Most computer games that are now released support 'Multiplayer'. This means that more than one player can play the game via a network. Please refer to the instruction manual provided with the game for information concerning 'Multiplayer'. The instruction manual will also state which protocols the game supports and how these must be installed.

4.2 Network components

After installing the N12M USB NETWORK LINK, Windows 98 or Windows ME will have installed the following network components. You can check to see whether these have been installed by clicking on 'Control Panel' in the Start menu and then double-clicking on the 'Network' icon (also see figure 4).

- Microsoft family logon
- TRUST N12M USB NETWORK LINK version 1.0 adapter
- NetBEUI
- TCP/IP

4.3 Protocols

A protocol is a type of language which computers use to communicate with each other. Each protocol has its own specific properties. A short description is given below of the most common protocols:

IPX / SPX:	This protocol is mainly used in Novell networks and also with games.
TCP / IP:	This protocol is used for Windows networks and the Internet. This protocol is also used for games. Use the following series for fixed TCP/IP addresses: 192.168.0.0 to 192.168.255.255, subnet mask = 255.255.255.0 This series can be safely used in an Intranet environment. Other TCP/IP settings are also used on the Internet. If a TCP/IP setting in the Internet range is used, it is possible that the network may not work correctly (if connected with the network).
NETBEUI:	This protocol is easy to use and is mainly used in Microsoft networks. It is ideal for sharing files and printers.

4.4 TCP/IP settings

Follow the instructions below to give each computer in the USB network a fixed TCP/IP address.

1. Open the 'Network Settings' window.
2. Click on 'Start – Settings – Control Panel' and double-click on the 'Network' icon. Figure 4 will appear.
3. Select 'TCP/IP'.
4. Click on 'Properties'.
5. Click on the 'IP Address' tab (see figure 5).
6. Select 'Specify an IP address' to use fixed TCP/IP addresses.
7. Give a TCP/IP address. This address must be unique in the network. Only change the last figure for other computers in the network. This number must be between 1 and 254.
8. For 'Subnet Mask', fill in 255.255.255.0.
This address must be the same for every computer in the network.
9. Click on 'OK' to return to the 'Network Settings' window.

4.5 Sharing files and printers

A number of settings must be made to allow other computers access to files on your computer and/or your printer.

4.5.1 Sharing files

In a network, a hard disk or directory is accessible via a share. A hard disk or directory must first be 'shared' to become accessible. The sharing of files and printers must first be enabled before shares can be made.

You must indicate this in the Windows 98 or Windows ME network settings. You then make a hard disk or directory shareable by indicating this in its properties.

Click on the 'Network Neighbourhood' icon on the desktop to access a shared hard disk or directory. A drive letter can be assigned to a share so that it can be accessed directly from each application. You can set the letter in the share's properties.

4.5.2 Sharing printers

Printers are shared in a similar way to files. You indicate that the printer is shared in its properties. Only then will the printer be available on the network.

Everybody who wishes to use a shared printer must install that printer's driver. It must also be indicated that it is a network printer and not a local printer.

4.6 Warning

The TCP/IP protocol is also used for the Internet. If you have set up a TCP/IP and switched on file and printer sharing, it is possible that somebody could access your hard disk and/or printer via the Internet.

To prevent this problem, switch off file and printer sharing or remove 'Client for Microsoft Network'. (Make sure that the TCP/IP protocol and the N12M USB NETWORK LINK are installed.)

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5 Network settings in Windows 2000 / Windows XP

This chapter gives a short description of the network settings in Windows 2000 and Windows XP. Procedures are not described in detail, however. See the Windows 2000 or Windows XP instruction manual and Online Help for more information.

5.1 Network and games

Most computer games that are now released support 'Multiplayer'. This means that more than one player can play the game via a network. Please refer to the instruction manual provided with the game for information concerning 'Multiplayer'. The instruction manual will also state which protocols the game supports and how these must be installed.

5.2 Selecting a computer name and/or a workgroup name

Follow the instructions below to set or change your computer name and/or workgroup name:

1. Go to the 'Control Panel' (Start – Settings – Control Panel).
2. Double-click on the 'System' icon.
3. Click on the 'Network Identification' tab (see figure 6).
4. Click on 'Properties' to change your computer's name and/or workgroup name.
5. Click on 'OK' to accept the changes.
6. Click on 'OK' to restart the computer.

Your network identification has now been changed.

Note: Your computer name must not contain any spaces.

5.3 Adding and removing a protocol

A protocol is a language your computer uses to communicate with other computers. See Windows Help for more information.

Follow the instructions below to add or remove a protocol:

1. Open 'Network and Dial-up Connections' (Start – Settings – Control Panel).
2. Double-click on the 'Local Area Connection x' icon which is connected to the N12M USB NETWORK LINK (see figure 6).
3. Click on 'Properties' in the window that appears.
4. Click on 'Install' to install network components, such as 'Client', 'Service' or 'Protocol'.
5. Click on 'Uninstall' to remove the selected item.

5.4 TCP/IP settings

Follow the instructions below to give each computer in the USB network a fixed TCP/IP address.

1. Open 'Network and Dial-up Connections' (Start – Settings – Control Panel).
2. Double-click on the 'Local Area Connection x' icon which is connected to the N12M USB NETWORK LINK (see figure 6).
3. Click on 'Properties' in the window that appears.
4. Select 'Internet Protocol (TCP/IP)' and click on 'Properties'.
5. Select the 'Use the following IP address' option.
6. Give a TCP/IP address for 'IP-Address'.
This address must be unique in the network. Only change the last figure for other computers in the network. Advice: 192.168.0.x; x=1 – 254.
7. For 'Subnet Mask', fill in 255.255.255.0.
This address must be the same for every computer in the network.
8. Click on 'OK' to continue.
9. Click on 'Close' to confirm the settings.

5.5 Other network settings

See chapters 4.5 and 4.6 for instructions on how to share files and printers.

6 Creating an Ethernet network

The TRUST N12M USB NETWORK LINK allows you to access other computers via an Ethernet network. This requires a system which links a USB network with an Ethernet network (see figure 8). The two networks are connected by means of the TRUST N12M USB NETWORK LINK Bridge Protocol.

- Computer A:** Connected to computer B via a USB network.
- Computer B:** Connected to computer A via a USB network.
Connected to computer C via an Ethernet network and a network card with a link via the TRUST N12M USB NETWORK LINK Bridge Protocol.
- Computer C:** Connected to computer B via an Ethernet network and a network card and the other Ethernet network.

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6.1 Installing the Trust N12M USB Network Link Bridge Protocol

There are two ways to install the TRUST N12M USB NETWORK LINK Bridge Protocol.

6.1.1 Installation

During the installation, indicate that the TRUST N12M USB NETWORK LINK Bridge Protocol must be installed (click on 'Yes' in figure 3).

6.1.2 Adding at a later date (Windows 98 / Windows ME)

You can add the TRUST N12M USB NETWORK LINK Bridge Protocol at a later date. Follow the instructions below:

1. Click on 'Start – Settings – Control Panel' and double-click on the 'Network' icon. Figure 4 will appear.
2. Click on 'Add'. A new window with the components 'Client', 'Adapter', 'Protocol' and 'Service' will appear.
3. Select 'Protocol' and click on 'Add'. A window with a list of manufacturers and models will appear.
4. For 'Manufacturers', select 'Prolific technology Inc.'.
5. For 'Models', select 'TRUST N12M USB NETWORK LINK version 1.0'.
6. Click on 'OK' to return to the 'Network Settings' window.
7. Click on 'OK' to accept the changes.
8. The computer must be restarted.

An extra protocol will be installed (N12M USB NETWORK LINK version 1.0) after the installation. This protocol allows computer A to access computer C.

Note: *The TRUST N12M USB NETWORK LINK Bridge Protocol may only be installed on 1 computer in the USB network.*

6.1.3 Adding at a later date (Windows 2000 / Windows XP)

See chapter 5.3 for instructions on how to add the protocol.

7 Troubleshooting

Method	
1.	Read the solutions given below.
2.	Check for up-to-date FAQ's, drivers and instruction Internet (http://www.trust.com/12922).



Problem	Cause	Possible solution
The device is not detected.	The USB port has not been installed.	Install the USB port.
	The USB port has not been enabled in the BIOS.	Enable the USB port in the BIOS. See the instruction manual for your motherboard for instructions.
	The USB port has an IRQ conflict.	Solve the IRQ conflict. If necessary, disable certain components in the BIOS or the 'Device Manager' (Windows).
	There is something else wrong with the USB port.	Go to www.trust.com/customercare/help/usb . This has a USB troubleshooter, which may solve the problem.
Cannot search the network.	The workgroup name has not been input correctly.	Give each computer in the network the same workgroup name.
	The N12M USB NETWORK LINK has not been installed correctly.	Connect the USB cables correctly.
	The N12M USB NETWORK LINK is marked with an explanation mark in the 'Device Manager'.	Remove the device from the 'Device Manager' and reinstall the driver.
	The computer has not been configured correctly.	Configure the computer correctly. Go to www.trust.com/customercare/help/general for general information about computers.
No games can be played via the network.	The protocol has not been installed.	Install the correct protocol. See the game's instruction manual to see which protocol to install.
	The TCP/IP setting for the game has not been set.	Set the TCP/IP address and the subnet mask (TCP/IP Properties).

TRUST N12M USB NETWORK LINK

Problem	Cause	Possible solution
No printers etc. can be accessed via the network.	File and printer sharing has not been enabled.	Enable file and printer sharing (network properties). See the Windows Help function.
	The device has not been shared.	Set each device as being shared. See the Windows Help function.
The problem is not listed here.	See the latest information concerning general network information.	Go to www.trust.com/customer-care/help/network for all the information concerning network problems.



If you still have problems after trying these solutions, please contact one of the Trust Customer Care Centers. You can find more information at the back of this instruction manual. Please have the following information available:

- The article number. This is 12922.
- A good description of what does not work.
- A good description of when the problem occurs.