

<u>Instructions when using for the first time</u>	<u>Chapter</u>
1. Using for the first time	(5)
2. Connecting the PCMCIA LAN card	(5.1)
3. Connecting the DSL line	(5.2)
4. Connecting to the computer	(6)
5. Checking after connecting	(7)
6. Configuring the DSL modem	(8)
7. Connecting to the Internet	(9)
8. Configuring the wireless network	(10)


 UK

1 Introduction

This instruction manual is for users of the TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION. This wireless DSL webstation can be used as a DSL modem and a 4-port router for sharing your Internet connection.

Note: *The term used for (A)DSL can vary throughout Europe. For example, the term ADSL is used in the Netherlands whilst other countries, such as Germany, use the term DSL. The term **DSL** will be used in this instruction manual.*

The 485A is intended for a DSL connection via an analogue PSTN/POTS line. The 490I is intended for a DSL connection via an ISDN line. This webstation can also be used to easily share your Internet connection via a wireless network.

2 Safety

Carefully read the following instructions before use.

- The TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION does not require any special maintenance. Use a slightly damp, soft cloth to clean the casing.
- Do not use aggressive substances, such as 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 the device near water.
- The device works via an adapter. Only use the adapter provided with the device. Only use the adapter to for this device. Using a different adapter may cause damage or start a fire.
- Make sure nothing is placed on the cable. Do not use this device where the cable can become worn or damaged as a result of people walking over it.
- Do not repair this device yourself. If you open this device, you may touch live components. This device must only be repaired by qualified personnel.
- Do not make alterations to this device or add any aerials, because the operation of this device may then no longer meet European or local regulations.
- Under the following circumstances, have the device repaired by qualified personnel:
 - * The cable or plug is damaged or worn.
 - * The device has come into contact with rain, water or another liquid.
 - * The device does not work as intended and the problem cannot be solved by following the instructions given in this instruction manual.

3 Approval

CE 0336

- This device meets the essential requirements and other relevant conditions of the applicable European directives. The Declaration of Conformity (DoC) is available at www.trust.com/13719/ce.
- This wireless device works at a frequency of 2400 ~ 2483.5 MHz on the ISM band. It meets the essential requirements and other relevant conditions of R&TTE Directive 1999/5/EC and can be used in the following EU countries: United Kingdom, Germany, Belgium, France, Spain, Portugal, Italy, Switzerland, Austria, Denmark, Norway, Sweden, Finland, the Netherlands, Iceland, Ireland, Greece and Luxembourg.
- The following limitations are applicable for certain countries.
France: Only channels 10 to 13 (2446.5 MHz ~ 2483 MHz) may be used.
- There may be limitations for the use of this device outside of the EU. If this device is used outside of the EU, check whether this device meets local regulations. Frequency: 2400 ~ 2483 MHz, Power: 100 mW (+20 dBm) max.

4 Indicators and connection points

See figure 1.

1	Power switch	Turns the webstation on and off.
2	Power connection	Connection for the adapter: 12 V DC / 1000 mA.
3	USB port	Connection for the USB cable to the USB port on the computer.
4	4 Ethernet connections	Connection points for network cables (RJ-45) to the network connection on the computer.
5	WAN connection	Connection for the XDSL line.
6	Wireless PCMCIA LAN card	This card is required to be able to make a wireless network connection.
7	Wireless PCMCIA network card slot	Insert the wireless PCMCIA LAN card here.
8	PCMCIA network card eject button	Press this button to eject the PCMCIA LAN card from the webstation.
9	Reset	Button to return the webstation to the default settings. Note: this button deletes all the current settings.
10	Holder	Holder which can be used to position the webstation vertically.

Table 1: Functions and connections

See figure 2.

	LED function	Description	
1	Power (green)	On	The webstation receives power.
		Off	The webstation does not receive power. Check whether the adapter has been connected.
2	WLAN	On	A wireless connection is possible.
		Off	The wireless option has been disabled in the settings. A wireless connection is not possible.
3	SHOWTIME	On	A connection has been made with your Internet Service Provider.
		Flashing	The webstation is attempting to make a connection with your Internet Service Provider.
		Off	There is no Internet connection.
4	ADSL RXD	Flashing	There is Internet data transfer between the webstation and your Internet Service Provider.
		Off	There is no Internet data transfer.
5	LAN LINK 1, 2, 3, 4	On	A computer is connected to one of the Ethernet connections via a cable (the LED indicates which connection).
		Off	No computer is connected to the Ethernet connection or the computer connected to the port has been turned off.
6	LAN ACT 1, 2, 3, 4	Flashing	There is data transfer across the local network via one of the Ethernet connections on the webstation.
		Off	There is no data transfer across the local network on the port concerned.



Table 2: Indicators

5 Using for the first time

5.1 Connecting the PCMCIA LAN card

If you wish to create a wireless network connection, insert the PCMCIA LAN card (6, figure 1) into the PCMCIA slot (7, figure 1) on the webstation. Make sure the webstation has been turned off before inserting the card into the slot.

After the webstation has been turned on, the indicator on the PCMCIA LAN card will be lit. The wireless connection will be activated after:

- The green indicator on the PCMCIA LAN card starts to flash.
- The WLAN READY LED on the webstation (4, figure 2) remains constantly lit (green).

TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION

If you do not wish to use the wireless network, you can remove the PCMCIA LAN card from the webstation. Remove the card as follows:

- 1) Turn your webstation off.
- 2) Press the eject button (8, figure 1).

Note: *Once the PCMCIA LAN card has been removed, it is no longer possible to make a wireless connection with the webstation. The WLAN READY LED (4, figure 2) will no longer be lit.*

5.2 Connecting the DSL line

5.2.1 First acquaintance with DSL

DSL works via your existing analogue telephone line or digital ISDN line. This means that the DSL signal and your existing telephone or ISDN signal enter your house via one cable. These two signals must be separated from each other if you wish to be able to use your telephone whilst accessing the Internet.

The two signals are separated using a filter/splitter. A filter ensures that the telephone signal is filtered out of the DSL/telephone connection. Without a filter, the DSL connection will be broken when the telephone is answered. The splitter provides two connections: one for the telephone and one for DSL. The splitter is fitted at the start of the incoming telephone line. From the splitter, the line goes to the DSL modem and your existing telephone or, for ISDN, to your existing ISDN(NT1) converter. Depending on the subscription that you have with your Internet Service Provider or your DSL line provider, you may have already received this filter/splitter. If you do not have a splitter, you will not be able to use your telephone when you are connected to the Internet. You can purchase a splitter from your local telephone shop.

DSL is divided into two groups:

- Annex A – DSL via an analogue telephone line, also called a POTS or PSTN line.
- Annex B – DSL via ISDN.

Depending on the subscription provided by your Internet Service Provider, you use either Annex A or Annex B. Contact your ISP for information regarding the type of DSL line you have.

**If your DSL line is an Annex A line, use the
TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION
(Item no. 13719)**

**If your DSL line is an Annex B line, use the
TRUST 490i SPEEDLINK (A)DSL WIRELESS WEB STATION
(Item no. 13723)**



Note: *It is not always the case that if you have always used an ISDN line for your telephone conversations, your DSL subscription will automatically be Annex B. Always contact your ISP to find out which type of DSL line you have.*

5.2.2 Requirements for a DSL connection

You need the following in order to connect to the Internet (if necessary, contact your Internet Service Provider).

- An activated analogue DSL line (Annex A, DSL via a POTS telephone line for the 485A), or
- An activated Annex B DSL line (Annex B DSL via an ISDN line for the 490I)
- An activated DSL subscription
- A user name and a password if you use a PPPoA or PPPoE connection.
- VPI / VCI values.
- Internet (network) protocol (PPPoA, PPPoE, Bridged Ethernet over ATM or Routed Ethernet over ATM)
- Encapsulation protocol (LLC/SNAP, VCMUX).
- DSL splitter (for simultaneous internet and telephone use).



Note: *The webstation will not work if you do not have all the items and information stated above. It is pointless to attempt to install the DSL modem without having these items and this information.*

Note: *The Trust 485A only works on an analogue telephone line (POTS or PSTN). This type of line is also called DSL Annex A.*

Note: *The Trust 490I only works on an ISDN line. This type of line is also called DSL Annex B.*

5.2.3 Connecting the DSL cable

Make sure the connection for your DSL line, splitter, telephone and webstation are connected as shown in figure 3 for an analogue POTS/PSTN line or as shown in figure 4 for an ISDN line.

1. Connect the DSL line to the WAN connection (5, figure 1) using the RJ-11 telephone cable.
2. Connect the other end to the correct connection on your splitter. This is usually indicated by 'Modem'. See the instruction manual provided with your splitter/filter for instructions on how to connect the splitter.

The webstation has now been connected correctly.

6 Connecting to the computer

The webstation can be connected to a computer in three different ways:

1. Via a network connection (RJ-45 cable).
2. Via a USB 1.1 connection (USB cable).
3. Via a wireless network connection (requires a wireless LAN card in the computer).

This chapter explains the first two options. If you have both a USB connection and a network connection (RJ-45) it is recommended to use the network connection.

Note: *When you first connect the webstation, it is recommended to connect it to your computer via a network cable or a USB cable.*

Note: *If the computer has previously been connected directly to a DSL modem or cable modem, it is possible that drivers for the modem or service are still installed on the computer, such as PPPoE or PPTP client software.*

diallers, password panels etc. Delete these, because they are no longer necessary and can adversely affect the operation of the webstation.

Tip: *The webstation is 'hot-swappable'. This means that the webstation can be connected and disconnected whilst the computer is turned on.*

6.1 Connecting to the network connection (PC/Mac)

1. Connect the power adapter to connection 2 (see figure 1) on the webstation.
2. Insert the power adapter into the plug socket.
3. Turn the webstation on using the switch (1, figure 1).
4. The Power indicator (1, figure 2) will be lit. The webstation is ready for use once this indicator remains lit continuously.
5. Connect a computer which has a network card to one of the four ports (4, figure 1) on the webstation using a standard STP or UTP network cable.
6. Turn on your computer and start the operating system.
7. The LINK indicator (5, figure 2) will be lit if the cable has been connected correctly. See table 2 in chapter 4 for the meaning of the indicators.

6.2 Connecting to the USB port (PC)

Tip: *The latest drivers can be downloaded from www.trust.com/13719 or www.trust.com/13723. Check whether a new driver is available and use this for the installation.*

Tip: *If you use Windows 98, make sure you have your Windows 98 CD-ROM available.*

Note: *The webstation's USB connection does not work on a Mac!*

6.2.1 Installing the USB driver

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. Continue with the installation.*

1. Connect the power adapter to connection 2 (see figure 1) on the webstation.
2. Insert the power adapter into the plug socket.
3. Turn the webstation on using the switch (1, figure 1).
4. The Power indicator (1, figure 2) will be lit. The webstation is ready for use once this indicator remains lit continuously.
5. Make sure the computer is turned on and the operating system is running.
6. Insert the Trust installation CD-ROM into your CD-ROM driver. The Trust setup menu will appear (see figure 12).
7. Connect the USB cable to the webstation's USB port (3, figure 1).
8. Connect the other end to the USB port on your computer.
9. Windows will detect a 'USB NET CARD'.
10. Click on 'Install USB driver' in the Trust setup menu.
11. Windows will automatically install a 'USB network adapter'. Follow the on-screen instructions.
12. Click on 'Finish' in the final window. Restart your computer if Windows asks you to do so.

6.2.2 Removing the USB driver

Note: Carry out the instructions given in this chapter if you no longer wish to use the USB connection on the webstation and the USB driver which has been installed on your computer.



Carry out the following if you no longer wish to use the USB port:

1. Make sure the computer is turned on and the webstation is connected.
2. Click on 'Start – Programs – Settings – Control Panel – Add/Remove Programs'.
3. Select 'Trust 485A SPEEDLINK (A)DSL WIRELESS WEB STATION adapter'.
4. Click on 'Remove'.
5. The USB driver will be automatically removed from your computer. Follow the on-screen instructions.

7 Checking after connecting

After the webstation has been connected to your computer, you can check a number of items on your computer and on the webstation to see whether the webstation has been installed correctly.

7.1 Webstation indicators

The following indicators will be lit if the webstation has been connected correctly.

POWER	Is constantly lit red when the webstation is connected to the mains power supply.
SHOWTIME	Is constantly lit green when the DSL line is active.
LINK	Is constantly lit green if a computer is connected to one of the Ethernet connections on the webstation.
WLAN READY	Is constantly lit green if a wireless network connection is possible.

7.2 Checking the network connection

7.2.1 Checking the network connection (PC)

Before continuing with the configuration of the webstation, you must check whether the computer's network settings are correct.

Tip: Follow the instructions below so that your network settings are automatically detected. If you have installed a network card, this will have already been installed on your network. You can then continue from point 6.

Tip: The 'Internet Sharing' instruction manual is supplied with this device. This instruction manual contains further instructions on how to configure a network.

1. Make sure the computer is turned on and Windows is running.

TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION

2. Click on 'Start – Settings – Control Panel' and double-click on the 'Network' icon.
3. In Windows 98 and Windows ME, you will now see your network components. In Windows 2000 and Windows XP, you must first right-click on 'Local Area Connection' and select 'Properties'.
4. In the window that appears, double-click on the TCP/IP protocol for your network card.
5. You will now see the 'Properties' of your network card's TCP/IP protocol.
Windows 98 / Windows ME
For Windows 98 and Windows ME, the 'IP Address' and 'DNS Configuration' tabs must be configured as shown in figure 5 and figure 6. Make sure no gateway has been entered in the 'Gateway' tab.
Windows 2000 / Windows XP
For Windows 2000 and Windows XP, the 'General' tab must be configured as shown in figure 7.
6. Right-click on your Internet Explorer icon and select 'Properties'. A new window will appear. You can also start Internet Explorer and then click on 'Tools – Internet Options'.
7. Select the 'Connections' tab.
8. Make sure no analogue or ISDN modem has been selected as the default dial-up connection. Select 'Never dial a connection'.
9. Click on 'LAN Settings'. Figure 8 will appear.
10. Make sure no options are selected (see figure 8).
11. Click on 'Start – Run'.
12. In the command line, type '**cmd**'.
13. A DOS window will appear.
14. Type the following command in the DOS command line: '**ipconfig**'.
15. If the webstation has been connected correctly, the following IP address will be given for 'Default gateway': **10.0.0.2**. (This is your webstation's IP address)

7.2.2 Checking the network connection (Mac)

Tip: Follow the instructions below so that your network settings for your webstation will be automatically detected by your Mac system.

Note: Make sure no (old) dial-up connections are active on your system.

Mac OS 9.x:

1. Make sure the computer is turned on and Mac OS is running.
2. Click on the Apple icon in the top left-hand corner of the window (see figure 9).
3. Select 'Control Panel'.
4. Select 'TCP/IP' from the list.
5. The window for the TCP/IP settings will now open (see figure 10).
6. 'Configure via:' must be set to **Ethernet**.
7. 'Configure:' must be set to **Using DHCP Server**.
8. If the webstation has been connected correctly to your Mac, the following IP address will be given for 'Router address' and 'Name server addr': **10.0.0.2**. (This is your webstation's IP address!)

Mac OS X:

1. Make sure the computer is turned on and Mac OS X is running.
2. Open 'System Preferences'.
3. Click on 'Network'.

4. The window for the network settings will now open (see figure 11).
5. Make sure you enter the correct network connection to which the webstation is connected. If you use an iMac or an eMac, this is usually 'Built-in Ethernet'.
6. Click on the 'TCP/IP' tab.
7. 'Configure:' must be set to **Using DHCP**.
8. If the webstation has been connected correctly to your Mac, the following IP address will be given for 'Router': **10.0.0.2**. (This is your webstation's IP address!)



Tip: *If your computer does not recognize the webstation or does not give the correct IP address, repeat the instructions given in chapters 5 and 6 to check for any errors or see chapter 14, 'Troubleshooting' and the 'Internet Sharing' instruction manual.*

8 Configuring the (A)DSL modem

Configuration options	Chapter
1. Via the pre-programmed list with the most common Internet Service Providers	(8.1)
2. Manually entering the settings for your Internet Service Provider	(8.2)
3. Advanced settings via your web browser	(8.3)

This chapter explains how to configure the webstation for the specific settings required by your Internet Service Provider (ISP). The webstation can be configured in three different ways. The first two methods are quick and simple to carry out via the configuration program provided in the Trust Installation CD-ROM. The third method is intended for advanced users and is carried out via your Internet browser. If you use a PC, it is recommended to use the Trust installation CD-ROM. Only the first two methods will be explained in this instruction manual.

If your ISP is included in the list of pre-programmed Internet Service Providers, choose method 1 (automatic). If your ISP is not included in the list, choose method 2 (manual). Make sure you have the following information from your ISP:

- VPI value
- VCI value
- Internet protocol
- Encapsulation setting

Note: *Make sure your webstation has been connected correctly before you continue with this chapter!*

Note: *The Trust installation CD-ROM is intended for use with a PC. If you use a Mac, you can only configure the webstation via the (advanced) browser configuration method (see chapter 8.3).*

8.1 Automatic

Note: The latest configuration programs can be downloaded from www.trust.com/13719 or www.trust.com/13723. Check whether a new version is available and use this for the installation. It will contain the most recent list of Internet Service Providers for your DSL settings. The current version of the configuration program is included on the Trust Installation CD-ROM.

Note: Make sure all other programs are closed during the installation.

Note: In the example, 'D:\' is used to indicate the CD-ROM drive. This may be different for your computer.

1. Insert the CD-ROM into your computer's CD-ROM drive. The installation program 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. The Trust Software Installer window will appear (see figure 12).
3. Click on 'Configure DSL webstation'. Figure 13 will appear.
4. A login screen will appear (fig. 22)
5. Enter the password of your webstation. See chapter 8.3.2 for changing the password.

Note: If you haven't set the password of your webstation yet, use the standard password **epicrouter**. It is recommended to change this password.

6. You'll enter the main-menu of the webstation.
7. Click on 'Set up (A)DSL automatically' (A, figure 13). The list of Internet Service Providers will appear (see figure 15). If your Internet Service Provider is not included in the list, click on the 'Back' button (A, figure 15) and continue from chapter 8.2.
8. Click on your Internet Service Provider if it is included in the list.
9. Figure 16 will appear if the selected ISP requires a user name and a password. Figure 17 will appear if it does not require a user name and a password. In that case, continue from point 10.
10. Enter your user name in field A (see figure 16).
11. Enter your password in fields B and C (see figure 16). Pay attention to capital letters and small letters.
12. Click on 'Next' (D, figure 16). Figure 17 will appear.
13. In figure 17, you can see which settings are going to be used. Click on 'Next' (A, figure 17) to save the settings in the webstation.
14. Figure 18 will appear.
15. Turn the webstation off for a couple of seconds and then turn it back on using the On/Off switch (1, figure 1).
16. Close the window by clicking on the cross in the bottom right-hand corner of the window.

The settings have now been enabled. If your webstation has been configured correctly, you can now connect to the Internet. See chapter 7 for instructions on how to check whether the webstation has been installed correctly.

8.2 Manual configuration

Note: See chapter 7, 'Checking after the installation', if you have already configured the webstation.

Each Internet Service Provider uses its own settings or *service*. There are many different variations, which all require different settings. Contact your Internet Service Provider to find out which service it uses. The table below shows a number of Internet Service Providers and the appropriate settings.



Country	ISP	VPI	VCI	Internet protocol	Encapsulation
The Netherlands	ADSL from KPN	8	48	PPPoA	VCMUX
	Planet Internet	8	48	PPPoA	VCMUX
	Het Net	8	48	PPPoA	VCMUX
	BBNED economy	0	35	Bridged Ethernet over ATM	LLC
	BBNED business	0	35	PPPoA	VCMUX
	BabyXL	0	34	Bridged Ethernet over ATM	LLC
Belgium	Belgacom ISDN	0	35	PPPoA	LLC
	Belgacom PSTN	8	35	PPPoA	LLC
	Tiscali Belgium ISDN	0	35	PPPoA	LLC
	Tiscali Belgium PSTN	8	35	PPPoA	LLC
Germany	T-Online	1	32	PPPoE	LLC
	Deutsche Telecom	1	32	PPPoE	LLC
	Tiscali Germany	1	32	PPPoE	LLC

Country	ISP	VPI	VCI	Internet protocol	Encapsulation
Italy	Tele Italia	8	35	PPPoA	VCMUX
	Telia	8	35	Bridged Ethernet over ATM	LLC
	Tiscali Italy	8	35	PPPoA	VCMUX

TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION

Switzerland	Swisscom	8	35	PPPoA	LLC
Spain	Tiscali Spain	1	32	PPPoA	VCMUX
United Kingdom	Tiscali UK	0	38	PPPoA	VCMUX
France	France Telecom	8	35	PPPoA	VCMUX

Table 3: ISP settings

Manual configuration

- Follow the steps 1 to 6 described in chapter 8.1
- Click on 'Set up (A)DSL manually' (C, figure 13). Figure 19 will appear.

Service options	Chapter
1. PPPoA	(8.2.1)
2. PPPoE	(8.2.2)
3. Bridged Ethernet over ATM	(8.2.3)
4. Routed Ethernet over ATM	(8.2.4)

8.2.1 PPPoA (RFC2364)

A user name and a password are needed for an Internet connection via PPPoA. The IP address, subnet mask and DNS address are released automatically by the ISP.

Necessary information
<ul style="list-style-type: none"> User name Password Encapsulation VCMUX or LLC/SNAP VPI value: 0 - 255 VCI value: 32 - 65535

- Depending on the encapsulation used by your ISP, select either '**RFC2364 PPPoA VC-Mux**' or '**RFC2364 PPPoA LLC**' from the drop-down menu (A, figure 19).
- Leave the 'Handshake' protocol (B, figure 19) as '**Autosence-G.dmt first**'.
- Enter the values provided by your ISP for VPI (C, figure 19) and VCI (D, figure 19).
- Click on 'Next' (E, figure 19). Figure 16 will appear.
- Enter your user name in field A (see figure 16).
- Enter your password in fields B and C (see figure 16). Pay attention to capital letters and small letters.
- Click on 'Next' (D, figure 16). Figure 17 will appear.
- This window displays a summary of the settings you have entered. Click on 'Next' (A, figure 17) to save the settings in the webstation.
- Figure 18 will appear.
- Turn the webstation off for a couple of seconds and then turn it back on using the On/Off switch (1, figure 1).

The settings have now been enabled. If your webstation has been configured correctly, you can now connect to the Internet. See chapter 7 for instructions on how to check whether the webstation has been installed correctly.

8.2.2 PPPoE (RFC2516)

This requires a user name and a password, just like PPPoA. The IP address, subnet mask and DNS address are also released automatically by the ISP.



<p>Necessary information</p> <ul style="list-style-type: none"> • User name • Password ▪ Encapsulation VCMUX or LLC/SNAP ▪ VPI value: 0 - 255 ▪ VCI value: 32 - 65535 	
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1. Depending on the encapsulation used by your ISP, select either **'RFC2516 PPPoE VC-Mux'** or **'RFC2516 PPPoE LLC'** from the drop-down menu (A, figure 19).
2. Leave the 'Handshake' protocol (B, figure 19) as **'Autosence-G.dmt first'**.
3. Enter the values provided by your ISP for VPI (C, figure 19) and VCI (D, figure 19).
4. Click on 'Next' (E, figure 19). Figure 16 will appear.
5. Enter your user name in field A (see figure 16).
6. Enter your password in fields B and C (see figure 16). Pay attention to capital letters and small letters.
7. Click on 'Next' (D, figure 16). Figure 17 will appear.
8. This window displays a summary of the settings you have entered. Click on 'Next' (A, figure 17) to save the settings in the webstation.
9. Figure 18 will appear. Turn the webstation off for a couple of seconds and then turn it back on using the On/Off switch (1, figure 1).

The settings have now been enabled. If your webstation has been configured correctly, you can now connect to the Internet. See chapter 7 for instructions on how to check whether the webstation has been installed correctly.

8.2.3 Bridged Ethernet over ATM (RFC1483, RFC2684)

Bridged Ethernet does not require a user name or a password. The IP address, subnet mask and DNS address are released automatically.

<p>Necessary information</p> <ul style="list-style-type: none"> ▪ Encapsulation VCMUX or LLC/SNAP ▪ VPI value: 0 - 255 ▪ VCI value: 32 - 65535 	
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1. Depending on the encapsulation used by your ISP, select either **'RFC2516 PPPoE VC-Mux'** or **'RFC2516 PPPoE LLC'** from the drop-down menu (A, figure 19).
2. Leave the 'Handshake' protocol (B, figure 19) as **'Autosence-G.dmt first'**.
3. Enter the values provided by your ISP for VPI (C, figure 19) and VCI (D, figure 19).
4. Click on 'Next' (E, figure 19). Figure 17 will appear.
5. This window displays a summary of the settings you have entered. Click on 'Next' (A, figure 17) to save the settings in the webstation.
6. Figure 18 will appear. Turn the webstation off for a couple of seconds and then turn it back on using the On/Off switch (1, figure 1).

TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION

The settings have now been enabled. If your webstation has been configured correctly, you can now connect to the Internet. See chapter 7 for instructions on how to check whether the webstation has been installed correctly.

8.2.4 Routed Ethernet over ATM (RFC1483, RFC2684)

This is the same as Bridged Ethernet, but with a fixed IP address.

Necessary information

- Encapsulation VCMUX or LLC/SNAP
- VPI value: 0 - 255
- VCI value: 32 - 65535
- IP address
- Gateway address
- Subnet mask address

1. Depending on the encapsulation used by your ISP, select either '**RFC2516 PPPoE VC-Mux**' or '**RFC2516 PPPoE LLC**' from the drop-down menu (A, figure 19).
2. Leave the 'Handshake' protocol (B, figure 19) as '**Autosence-G.dmt first**'.
3. Enter the values provided by your ISP for VPI (C, figure 19) and VCI (D, figure 19).
4. Click on 'Next' (E, figure 19). Figure 20 will appear.
5. For the 'Static IP Address' field (A, figure 20), enter the IP address given to you by your ISP.
6. In the 'GATEWAY' field (B, figure 20), enter the gateway given to you by your ISP.
7. In the 'Subnet Mask' field (C, figure 20), enter the subnet mask given to you by your ISP.
8. Click on 'Next' (D, figure 20). Figure 17 will appear.
9. This window displays a summary of the settings you have entered. Click on 'Next' (A, figure 17) to save the settings in the webstation.
10. Figure 18 will appear. Turn the webstation off for a couple of seconds and then turn it back on using the On/Off switch (1, figure 1).

The settings have now been enabled. If your webstation has been configured correctly, you can now connect to the Internet. See chapter 7 for instructions on how to check whether the webstation has been installed correctly.

8.3 Advanced settings (via your web browser)

8.3.1 Opening the configuration module

You can access your webstation via your web browser, such as Internet Explorer. This method is only for advanced users! We only recommend using this extensive configuration module if you:

1. Do not use Windows, but use an operating system such as Mac or Linux.
2. Wish to set up a Web or FTP server.

Carry out the following to access the configuration module:

1. Open your web browser.
2. Type the following IP address in the address bar: **10.0.0.2**
3. A window will appear which will request a user name and a password.
4. For the user name, enter: "**admin**".

5. For the password, enter the password of the webstation.

Note: Only use small letters!

Note: If no password has been set yet then use the default password for this webstation: **epicrouter**. It is recommended to change this password.



You are now connected to the webstation's configuration module.

8.3.2 Changing the webstation's password

Carry out the following if you wish to change the webstation's password:

1. Follow the steps 1 to 6 described in chapter 8.1.
2. Choose 'Change Admin password' (E, fig. 13).
3. Fig. 23 appears.
4. Enter in the field 'Admin password' your new password.
5. Re-enter in the field 'Confirm' your new password again. (Use <TAB> keys to move to the next field)

Tip: Click on C (fig. 23) to go back to the main menu without saving your (new) password.

6. Press <ENTER> key to save your new password.
7. Fig. 18 appears. Switch your webstation a few seconds off and then on again.
8. The webstation's password has now been changed.

Keep the new password in a safe location.

If you forget the password, you can return the webstation to the default settings (see chapter 11). However, you will then also have to reconfigure the webstation.

9 Connecting to the Internet

If the webstation has been connected and configured correctly, you should now be able to connect to the Internet using the computers which are connected to the webstation.

Comment: The connection will not be made if Internet Explorer is configured to connect to the Internet using a dial-up connection. See chapter 7.2.1 (point 6) for instructions on how to disable the dial-up connection.

In most cases, the connection to the Internet will be made in the same way as it would have been made without a webstation. A short explanation of how to connect to the Internet is given below.

1. Make sure the computer is turned on.
2. Click on 'Start – Programs – Internet Explorer'.
3. Internet Explorer will be opened.
4. You are now connected to the Internet.

Comment: See the 'Internet Sharing' instruction manual if you are not able to connect to the Internet. This instruction manual contains detailed information about sharing an Internet connection and networks. A step-by-step explanation is given of how to make a network connection and how to share your Internet connection.

10 Configuring the wireless network

10.1 Setting up a wireless connection

Comment: In order to have a reliable wireless connection, the webstation must be no further than 50 metres from the wireless computer.

Comment: Radio waves pass through glass, walls and wood, but not metal. A connection cannot be made if your walls contain metal.

Comment: Do not place the webstation closer than 1.5 metres to electrical devices which transmit radio signals, such as microwave ovens, monitors and electric motors.

Make sure you have carefully followed the instructions given in chapters 5 to 9 and have configured the webstation correctly. Otherwise, it is pointless to try and create a wireless connection with the Internet.

Note: In the example, 'D:\' is used to indicate the CD-ROM drive. This may be different for your computer.

1. Insert the CD-ROM into your computer's CD-ROM drive. The installation program will start automatically. If it does not start automatically, carry out the following:
 - c.) Select 'Run' from the Start menu.
 - d.) Type [D:\SETUP.EXE] and click on 'OK' to start the Trust Software Installer.
2. The Trust Software Installer window will appear (see figure 12).
3. Click on 'Configure DSL webstation'. Figure 13 will appear.
4. Click on 'Wireless' (D, figure 13).
5. Figure 21 will appear.
6. You can enter a name for the wireless connection in the 'SSID' field (A, figure 21), for example, 'MSHOME01'. This name will appear when somebody attempts to connect to the wireless network.
7. Select the channel via which you wish to communicate (for example, Channel 10) in field B (see figure 21). Note: only channels 10 to 13 are permitted in France.
8. Leave the 'Authentication' field as 'Auto'.
9. If you are making a wireless connection for the first time, leave the 'Encryption' as 'Disabled' for the time being. See chapter 10.2 for instructions on how to change the encryption setting.

Make sure a wireless network card has been installed in your computer. See the instruction manual provided with your wireless network card for instructions on

how to install it. If the wireless network card has been installed correctly, you can now connect to the webstation. Make sure the wireless network card is set to the same channel as the webstation.

10.2 Securing a wireless network

A wireless connection does not stop at your front door. The following security problems may occur with a wireless network:

- Users nearby or passers-by can access the network and, therefore, also access any computers which are connected to the network.
- Other people can read information which is sent over the network. This also includes passwords, etc.

To reduce security risks, this webstation has a WEP key. You can assign a key to your webstation. Only those people who possess this key are then able to access the webstation. Using the WEP key, the information which is sent is encrypted and is, therefore, more difficult to intercept.

Comment: *If you follow the instructions given below, all the connections (including the cable connections) will be temporarily broken; the connection with WEP encryption can be enabled again once wireless computers have been installed.*

Carry out the following to secure your wireless connection.

1. Open the wireless set-up menu as described in chapter 10.1.
2. Figure 21 will appear.

Tip: *Use the left-hand arrow (G, figure 21) to return to the main menu. Click on the cross (I, figure 21) to close the window.*

3. Click on **'Enable Encryption'** (D, figure 21).
4. Enable the WEP encryption by selecting **'128 bit'** (E, figure 21).
5. Select **'Key 1'** (F, figure 21) and enter a hexadecimal combination of numbers and letters. These are numbers from 0 to 9 and letters from A to F. Example: F2313334AAA603900012300AA. Write the key down somewhere. You will need it if you wish to add wireless computers to the network.
6. Also fill in the other 3 key fields with an arbitrary hexadecimal combination of numbers and letters.
7. Set **'Key'** (F, figure 21) to **'Key 1'**.
8. Click on the arrow (H, figure 21) to save the settings.

The wireless connection now has WEP encryption. The WEP must be enabled using the key (see point 5) for every computer which is added to the wireless network.

Others computers only be able to access the wireless network if they enter the following settings:

- 'WEP' activated.
- 'WEP Key' set to '128 bit'.
- Exactly the same key as was entered in the webstation.

The logo consists of the letters 'U' and 'K' in a white, sans-serif font, positioned on a solid black rectangular background.

11 Returning the settings to the default settings

Warning: *If you use the reset button, all the settings saved in the webstation will be deleted.*

Warning: *In an office environment, you can avoid users from resetting the webstation by (a) placing the device in an area which is only accessible for certain personnel, (b) covering the reset button and/or (c) only allowing certain users to read this instruction manual.*

Only follow the procedure given below in one of the following situations:

- The device no longer reacts after an alteration has been made.
- You have changed a lot of settings, you no longer know which setting you have changed and the connection no longer works.
- You wish to change the settings but you no longer know what the password is. Check whether you know which settings you must make in order to be able to install everything successfully before continuing.

If the webstation is reset, all the settings will be returned to the default settings and all the changes made to the settings will be deleted. The webstation is reset as follows:

1. Disconnect the network cables and the modem cable from the webstation.
2. Make sure the plug of the adapter is inserted into the plug socket and the adapter is connected to the webstation.
3. Press the reset button on the front of the webstation (9, figure 1) with a pointed object.
4. Turn the webstation off and then turn it back on again.
5. The webstation can now be configured again (see chapter 8).

12 INTERNET SHARING instruction manual

See the 'Internet Sharing' instruction manual if you require more information concerning the Internet and sharing an Internet connection. This is a very detailed, general instruction manual concerning sharing Internet connections and network configurations.

Most questions you may have concerning sharing an Internet connection and your network configuration are answered in this instruction manual.

Open the instruction manual as follows:

Note: In the example, 'D:\' is used to indicate the CD-ROM drive. This may be different for your computer.

1. Insert the CD-ROM into your computer's CD-ROM drive. The installation program will start automatically. If it does not start automatically, carry out the following:
 - a) Select 'Run' from the Windows Start menu.
 - b) Type [D:\SETUP.EXE] and click on 'OK' to start the Trust Software Installer.
2. The Trust Software Installer will appear. Select the language you wish the Trust Software Installer to be displayed in.
3. Click on 'Read Internet Sharing manual' to open the instruction manual.

U K

13 Technical specifications

Approved countries	United Kingdom, Germany, Belgium, France, Spain, Portugal, Italy, Switzerland, Austria, Denmark, Norway, Sweden, Finland, the Netherlands, Iceland, Ireland, Greece and Luxembourg.
Radio frequencies used (RF)	2400 MHz – 2483.5 MHz – Europe 2446.5 MHz – 2483.5 MHz – France
Number of channels used	13
Data protection	64 + 128-bits WEP encryption, 802.1x access control (via Windows XP & RADIUS Server).
Data modulation speed	11 / 5.5 / 2 / 1 Mbps with auto fallback
Supporting standards	IEEE 802.11b (11 Mbps)
Speed versus distance in an open area without obstacles	11 Mbps: up to 30 m; less than 11 Mbps: up to 100 m.
Operation	Fully independent operation with an internal CPU controller. Web-based installation and administration.
Management	- Telnet server - WWW server - FTP server Optional remote access via the Internet.
Windows support	All Windows versions are supported.
MAC OS compatible	All versions with a browser are supported.

14 Troubleshooting

Method

1. Read the solutions given below.
2. Information concerning updated FAQ's, drivers and instructions manuals is available at www.trust.com/13719.



DSL modem:

Problem	Cause	Possible solution
The 'Showtime' indicator on the webstation continues to flash.	The webstation does not receive a DSL signal.	Connect the DSL line correctly (see chapter 5.2).
	The splitter/filter has not been connected correctly.	Check whether the splitter/filter has been connected correctly.
	The RJ-11 telephone cable is broken.	Use a different telephone cable.
	The webstation is connected to the wrong line (Annex A webstation with an Annex B (ISDN) line or vice versa).	Check with your ISP which DSL line you have (see chapter 8 for more information).
	The DSL line has not been activated.	Contact your ISP or DSL provider to see whether your DSL line has been activated.
A connection cannot be made with the Internet.	The wrong DSL line provider has been selected during the installation.	Reconfigure the webstation using the configuration program (see chapter 8).
	The wrong settings have been entered (VCI, VPI).	Reconfigure the webstation using the configuration program (see chapter 8.2).
	The wrong encapsulation has been selected (LLC/Snap, VCMUX).	Reconfigure the webstation using the configuration program (see chapter 8.2).
	The wrong protocol has been installed (RFC1483, RFC2364 PPPoA, RFC2516 PPPoE).	Reconfigure the webstation using the configuration program (see chapter 8.2).
	You are using an Annex A modem on an Annex B (ISDN) line (or vice versa).	Check with your ISP which DSL line you have (see chapter 8 for more information).
	The network and Internet connection have been configured incorrectly.	Make sure the network and Internet connection are configured correctly in the computer (see chapter 7).
You are not able to receive telephone calls when using the Internet.	No splitter/filter is used.	Use the splitter/filter provided by your ISP or purchase a splitter/filter (available from your telephone shop).

TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION

Problem	Cause	Possible solution
There is interference on the telephone line when using the telephone and the Internet at the same time.	A poor quality splitter/filter is used.	Use a separate filter between the telephone and the telephone line (available from your telephone shop).
If connected to the USB port: Windows does not detect a new device after connecting the webstation to the computer's USB port.	The modem has not been connected to a USB port.	Check the connection.
	The 'New Hardware Found' Wizard is stopped after connecting the USB modem (Windows XP).	Install the driver as described in chapter 6.2.1.
If connected to the USB port: the USB port is indicated with an exclamation mark '!' in the Windows Device Manager.	The computer's USB port does not work.	Check the settings for your USB port. For more information, see www.trust.com/customer-care/help/usb
	The USB port has an IRQ conflict with another device in your computer.	Reconfigure your PC and free up some IRQ addresses. See www.trust.com/customer-care/help/general
If connected to the USB port: 'Conexant USB network adapter' is marked with an exclamation mark '!' in the Windows Device Manager.	The driver has not been installed correctly.	Uninstall the driver (see chapter 6.2.2). Reinstall the driver (see chapter 6.2.1).
No e-mails can be sent.	You have a number of different e-mail accounts.	Providers wish to avoid e-mails being sent without being logged on to the provider in question. Connect to the other provider using your analogue modem or ISDN connection.
	The e-mail settings are incorrect.	Check the e-mail settings using the information provided by your ISP.
	The solution is not listed here.	Connect to the Internet using an analogue or ISDN modem and see the 'Trust Internet Troubleshooter' or contact your ISP.
There are	There may be a number of different causes.	See the 'Internet Sharing' instruction manual.



TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION

Problem	Cause	Possible solution
problems with the Internet settings.		Connect to the Internet using an analogue modem or an ISDN modem and see the following troubleshooter: www.trust.com/customer-care/help/internet
The problem is not listed here.		Connect to the Internet using an analogue modem or an ISDN modem and see the following troubleshooter: www.trust.com/customer-care/help/network

Wireless network:

Problem	Cause	Possible solution
Other computers are not visible on the network or the Internet connection does not work.	No stations or printers have been shared with other computers in the network.	Share at least 1 station or 1 printer to make the computer visible in the network.
	The PC workgroup name is not the same as the workgroup name for the other computers in the network.	Change the workgroup name in the 'Network properties'. See chapter 6 in the 'Internet Sharing' instruction manual on the Trust installation CD-ROM or the printed version.
	The network settings are incorrect.	See the 'Internet Sharing' instruction manual on the Trust installation CD-ROM or the printed version.
The browser does not open a page for 10.0.0.2.	The computer's TCP/IP settings are incorrect.	Set TCP/IP to 'Automatic'.
	The computer or another device is using the same address.	Use the software to change the TCP/IP settings for each device.
	The internal settings are incorrect or corrupt.	Reset the webstation (see chapter 11).

The wireless computer cannot detect the webstation, even after installing the webstation successfully.	The computer had not finished searching.	Carry out a 'Site Survey' with the computer. The webstation must now be visible.
	The radio frequency has interference.	Move the device closer or change the webstation's channel. Move the channel at least 5 channels from the other wireless networks which are close by.
	The distance is too great.	Move the device closer. In the worst instance, the distance may only be 30 m.
	The wireless network card has been installed in the computer incorrectly.	Check the settings. Try to connect to a different computer or an Access Point (AP).
The computer can detect the webstation, but the connection with the wireless network card does not work.	The encryption settings on the computer are different to those of the AP.	Check the WEP encryption settings, the value for the WEP key (64-bit or 128-bit) and Authentication (open system or shared key).
	The distance is too great.	Move the device closer. The maximum distance for a home or office environment should be 30 m.
	The settings on the computer have not been entered.	Use the software to configure the wireless connection or the computer's Control Panel to create the connection. The wireless connection must be created before it can function. See the instruction manual provided with the wireless network card for more information.
	Windows XP is set to 'The key is provided to me automatically'.	Disable this setting and manually enter the key.
	The webstation was set to 'Open System' whilst the computer tried to use 'Shared Key'.	Make sure both settings are the same.
	The radio frequency has interference.	Move the device closer by or change the channel. Move the channel at least 5 channels from the other wireless networks which are close by.



<p>The wireless network card is connected to the webstation but the other computers on the network cannot be detected and you cannot use the network services.</p>	<p>The computer's network settings are incorrect.</p>	<p>Check the settings. At least the TCP/IP protocol and the 'Client for Microsoft Networks' component must be installed in order to be able to connect to other computers in Windows.</p>
	<p>No stations or printers have been shared with other computers in the network.</p>	<p>Share at least 1 station or 1 printer to make the computer visible in the network.</p>
	<p>It can take some time before the other computers become visible.</p>	<p>Wait and try again later.</p>
	<p>Windows 98 and Windows ME: You have pressed the ESC key in order to skip the logon window. This causes the network to be disabled.</p>	<p>Log on correctly.</p>
	<p>The PC workgroup name is not the same as the workgroup name for the other computers in the network.</p>	<p>Alter the workgroup name in the 'Network Properties' or try to connect directly with the other computer's IP address (such as \\10.0.0.100\share).</p>
<p>It is not possible to share an Internet connection.</p>	<p>The computer is still configured to use a dial-up network connection.</p>	<p>Disable the dial-up network connection in your Internet browser (see chapter 7.2.1).</p>
	<p>The computer's network settings are not configured for DHCP.</p>	<p>Configure the computer for DHCP (see chapter 7.2.1).</p>
<p>The connected computer does not receive an IP address from the device.</p>	<p>The DHCP server is disabled.</p>	<p>Enable it in the parameters.</p>
	<p>The webstation is jammed.</p>	<p>Turn the webstation off and then turn it back on again (1, figure 1) and wait. Reset the default settings (see chapter 11) if this does not solve the problem.</p>
	<p>The computer was not configured to automatically receive IP addresses, etc.</p>	<p>See chapter 7.2.1.</p>
	<p>The cables have not been connected properly.</p>	<p>Check the LED and look to see whether the cables have been connected correctly.</p>

TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION

Wireless stations do not make a connection, the connection is often lost, the signal is weak, the data transfer is poor or very slow.	WEP is enabled with the wrong key.	Select the same key for the webstation and the stations which must be connected to it. Disable WEP encryption and look to see if there are any other causes.
	There is interference from another 2.4 GHz device, such as a video, other networks, Bluetooth devices, a microwave oven, etc.	Change the channel or position the device further away from the source of the interference. Stop using the device which is causing the interference. Select a channel which is at least 5 channels away from the other wireless networks.
	The distance is too great.	Move the device closer.
The problem is not listed here.	The latest FAQ's are available on the Internet.	See www.trust.com/13719 for FAQ's and other product information.
	Other network problems.	See the Troubleshooter: www.trust.com/customercare/help/network



See the FAQ's at www.trust.com. You can register your product at www.trust.com, so that you can receive optimal guarantee and service support. You will be automatically informed of the latest developments to your product and other Trust products.

If you still have problems after trying these solutions, please contact one of the Trust Customer Care Centers. Please have the following information available:

- The item number. This is 13719 (Annex.A) or 13723 (Annex.B).
- A good description of the problem.
- A good description of the circumstances under which the problem occurs.

15 Warranty conditions

- Our products have a two-year manufacturer's warranty which is effective from the date of purchase.
- If there is a fault, return the product to your dealer and include the proof of purchase, all the accessories and an explanation of the fault.
- During the warranty period, you will receive a similar model, if one is available. The device will be repaired if a similar product is not available.
- Please contact our help desk for missing components, such as the instruction manual, software or other components.
- The warranty becomes invalid if the product has been opened, if there is mechanical damage, if the product has been misused, if alterations have been made to the product, if the product has been repaired by a third party, in the case of negligence or if the product has been used for a purpose other than that originally intended.
- Excluded from the warranty:
 - Damage caused by accidents or disasters, such as fire, flood, earthquakes, war, vandalism or theft.

TRUST 485A SPEEDLINK (A)DSL WIRELESS WEB STATION

- Incompatibility with other hardware or software which is not stated in the minimum system requirements.
 - Accessories such as batteries and fuses (where applicable).
- Under no circumstances will the manufacturer be held responsible for any incidental or consequential damage, including the loss of income or other commercial losses resulting from the use of this product.