

## **User Manual**

English



LINDY No. 25121



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#### Introduction

Thank you for purchasing a LINDY HomePlug product. HomePlug technology makes setting up a home or small office network quick and easy!

HomePlug allows you to create a network using electrical power lines. Simply plug a LINDY HomePlug USB Adaptor into your computers USB port and then into a mains socket. The computer data is converted into a signal that can be carried over the mains wiring without interfering with the ordinary current travelling through the wire!

**IMPORTANT** - This manual provides you with details of how to install and use the HomePlug USB Adaptor and its utility software. It is assumed the user has knowledge and experience of setting up a basic network.

#### About LINDY HomePlug devices

There are two LINDY HomePlug devices available – The HomePlug USB Adaptor and the HomePlug Ethernet Bridge. Each device allows you to connect your computer to a network, but there is a fundamental difference between them -

The **HomePlug Ethernet Bridge** connects to an Ethernet port. It does not function as a network adaptor, but provides a 'bridge' between the Ethernet and HomePlug networks.

The **HomePlug USB Adaptor** connects to a USB port on your computer and functions as a network adaptor. It can only be connected to a PC running Windows 98SE, ME, 2000 or XP. It cannot be connected to a USB printer or other USB device!

The HomePlug Ethernet Bridge can be plugged into any device with a 10/100 RJ-45 Ethernet port, such as PC's, Mac's, X-Boxes, hubs, switches etc., without the need to install any special software. However, the Ethernet port, to which the Bridge is connected, must be configured to access your network.

Note: To change the network password or use the HomePlug configuration utility, you must connect the Ethernet Bridge to a PC and install the supplied software. The HomePlug software must be installed when using the USB model!



## Understanding HomePlug Encryption and Security

HomePlug uses password encryption to prevent unwanted access from within or outside of your network. The encryption works by using a string of letters and/or numbers to encode your data.

The encryption password is set using the HomePlug Configuration Utility software. By default, the password protection is enabled (the default password is HomePlug). However, it is recommended that you change this password. All your Home Plug devices must use the same password in order for the computers to be networked. Make sure that all devices are loaded with the same password!

Each LINDY HomePlug device has a **Default Encryption Key (DEK)** which is printed on the bottom of the module. The DEK is required when setting up a new password.

### Basic requirements for setting up a HomePlug network

- At least <u>two</u> HomePlug devices
- Available mains sockets at each location
- Computer(s) with a 10/100Base-T Ethernet adaptor (for Ethernet Bridge model)
- PC(s) with a USB 1.1 or 2.0 port (for USB Adaptor model)
- Standard home power line wiring
- CD-ROM drive
- Windows 98SE, ME, 2000 or XP or, for the Ethernet Bridge model, any operating system
   no software installation is required! Note: Password changes require connection to a PC running the HomePlug Configuration Utility software!

#### Supplied Items (LINDY Part No. 25121)

- 1. LINDY HomePlug USB Adaptor module
- 2. Mains power cable
- 3. USB cable
- 4. Configuration software CD
- 5. User manual
- 6. Wall mounting kit



#### **Software Installation**

# Note: Windows may look different on other platforms!

 Do not connect the HomePlug USB Adaptor to your computer yet! Insert the CD into your CD-ROM drive. If the CD doesn't automatically load, run -

#### <CD Drive Letter>:\usb\setup.exe

Click on 'Next' to start the installation

Welcome to the InstallShield Wizard for HomePlug USB 1.1
The InstallShield(R) Wizard will install HomePlug USB 1.1 on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.

2. Enter a User Name and Organisation, and select either 'Anyone who uses this computer' or 'Only for me', according to your preference.

Click 'Next' to continue.

uscomer information			
Please enter your information.			
User Name:			
Tech-Support			
Organization:			
LINDY			
Install this application for:			
Anyone who uses this c	omputer (all users	)	
C Only for me (Tech-Supp	ort)		
allShield			

3. Review or change your installation settings, then click 'Install'.

eady to Install the Program	
The wizard is ready to begin installati	ion.
If you want to review or change any exit the wizard.	of your installation settings, click Back. Click Cancel I
Iurrent Settings:	
Setup Type:	
Destination Folder:	
C:\Program Files\HomePlug\	
User Information:	
Name: Tech-Support	
Company I THEY	



4. Connect the HomePlug Adaptor to your computer now! (See 'Connecting the HomePlug USB Adaptor' on page 7)

Click 'OK' to continue.

To complete	the installation of your HomePlug enabled	device,
box like belo	ow, press Continue anyways	nog
	Providence International	
	The software rac are notating for the bootware	
	has nationally window Logicisting to well-its compatibility	
	with Western 2019 Elision and the instance is maximal.	
	in distribution the concept incomtance at your particle ratios management and the second second second second resonances to that you show they this metallities many and context the hardware version for indiffuser that have particle Windows Logic feeting.	
	ComeAvers STOPAddaw	
ou Must clos	e all programs then Reboot your computer	Afterwar

5. Restart your computer for the changes to take effect by clicking 'Yes'



6. After the computer has rebooted Windows will detect new hardware and install the software.

Click 'Next' to continue.





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7. Software Installation is now complete, click 'Finish'.



8. Confirm the correct installation of the HomePlug USB Adaptor by viewing 'Network Connections' in Windows.

Select -

#### Start ► Settings ► Network Connections

- Interne Explore Windows Catalog Windows Updat .... Documents Control Panel Settings 🔍 Network Conne Search Printers and Fax es Displays ng network connections on this computer and ê 0 Help and Supp Taskbar and Sta you create new on Rup 0 Shut Down.
- 9. You will see a new Local Area Connection for the HomePlug Adaptor!

#### LAN or High-Speed Internet



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Local Area Connection 3 Enabled HomePlug USB V1.1



## Connecting the HomePlug USB Adaptor

- 1. Plug the supplied power and USB cables into the relevant sockets on the rear of the HomePlug module.
- 2. Plug the other end of the USB cable into a USB socket on your computer.
- 3. Plug the mains cable into the socket and switch it on.

### **Front View**



#### **Rear View**





## **HomePlug Configuration Utility**

With the HomePlug Configuration Utility you will be able to configure and obtain status on your HomePlug network. Just click the shortcut on your desktop.



#### **Device section**

The Device section shows the HomePlug adaptor(s) that are directly connected (local) to your computer.

HomePlug configuration Utility
Device Network Security Advanced About
State: Connected to 00:90:47:04:8f:87 The HomePlug devices connected to your PC are shown below. You can select a desired local device from the list, and click the 'Connect' button to access your network.
Device MAC address HomePlug X1(ETH) 00:90:47:04:8f:87
Refresh Connect
OK Cancel

State	Shows the MAC address of the <b>local</b> HomePlug adaptor.
Refresh	Click on this button to refresh the information about the <b>locally</b> connected HomePlug adaptor.
Connect	When you have more than one HomePlug device connected directly to your computer you can select which one you want to connect to, by highlighting it in the device window, and clicking 'Connect'.
Link Quality	Shows the signal strength of the linked HomePlug devices on the network. <i>Note: When only one HomePlug device is present on the network the Link Quality will show as poor!</i>



#### **Network section**

HomePlu	ıg configur	ation Utility
Device	Network Se	ecurity Advanced About
		The following devices are located on your HomePlug network.
		MAC Address         Data Rate (Mbps)           00:90:47:04:8f:43         14.00
		<
		Scan HomePlug Network
		OK Cancel

This section shows all of the **remote** HomePlug devices on the HomePlug network. The **local** HomePlug device will <u>**not**</u> be shown here.

MAC Address	The MAC address of each <b>remotely</b> connected HomePlug device is shown here.
Data Rate	Shows the speed that each <b>remote</b> device is connected at. The data rate will vary depending on the power line quality.
Scan HomePlug Network	Click here to scan for new devices on the HomePlug network.



#### **Security section**

The security password for the **locally** connected device can be set in this section. To ensure network security a password must be set for each HomePlug device on the network, and for correct operation all of the HomePlug devices must share the same password. (See 'Setting the network password' on page 12)

HomePlug configuration Utility
Device Network Security Advanced About
Enter your own private password in the Network Password box below. Press the Set Local button to set the local device password.
Note that you will need to setup each device on your HomePlug network with the same Network Password.
Network Password
Set Local Restore Default
OK Cancel

Network Password	Enter a new network password here (the default password on all LINDY HomePlug devices is 'HomePlug'). <i>Note: the password is case sensitive and must be the same on all of the HomePlug devices on the network!</i>
Set Local	Click here to set the network password for the <b>local</b> device.
Restore Default	Clicking this button restores the default password ('HomePlug') to the <b>local</b> device.



#### **Advanced section**

This section allows you to remotely set the network password of all the HomePlug devices on the network.

HomePlug configuration Utility	×
Device Network Security Advanced About Remote Passwords	It Network Password HomePlug Device Password Add
Set All Remove	
	OK Cancel

Remote Passwords	The DEK (Default Encryption Key) and status of each <b>remotely</b> connected device is listed in this box.
Network Password	Shows the current network password
Device Password	The DEK (Default Encryption Key) of each <b>remotely</b> connected device is entered here.
Add	Click this button to add the <b>remote</b> device DEK to the 'Remote Passwords' box.
Set All	Clicking this button applies the current network password to all the devices listed in the 'Remote Passwords' box.
Remove	Remove a device from the 'Remote Passwords' box by highlighting it and clicking this button.



### Setting the network password

1. Open the Advanced section and enter the DEK number of the **remote** HomePlug device (located on the bottom of the module) in the Device Password box and click 'Add'

HomePlug configuration Utility Device Network Security Advanced Ab	out
Remote Passwords Password Status	Network Password HomePlug Device Password [78Q6-WJVY-WG4V-HMY5] Add
Set All Remove	
	OK Cancel

2. The DEK number will appear in the 'Remote Passwords' box.



3. Enter a new network password in the 'Network Password' box and click 'Set All' to change the network password for the **locally** connected device and all the **remote** devices listed in the 'Remote Passwords' box.

> Note: Changing the network password does not alter the DEK number in the 'Remote Passwords' box – each device will always be listed by its DEK number!

HomePlug configuration Utility	$\mathbf{X}$
Device       Network       Security       Advanced       About         Remote Passwords	
Set AllRemove	
OK Cancel	

 Open the Security section and check the Network Password of the locally connected device – it will have changed to the new password (e.g. LINDY)

HomePlug configuration Utility	K
Device Network Security Advanced About	
Enter your own private password in the Network Password box below. Press the Set Local button to set the local device password. Note that you will need to setup each device on your HomePlug network with the same Network Password.	
OK Cancel	



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4. Open the Device section and check the Link Quality of the **remote** devices by clicking 'Refresh'.

Note: When the password change is successful the link quality will be 'Good' or 'Excellent'. When a HomePlug device with an incorrect password is present on the network, the link will be poor!

HomePlug configuration Utility	
Device Network Security Advanced About	
State:       Connected to 00:90:47:04:8f:87         The HomePlug devices connected to your PC are shown below. You can select a desired local device from the list, and click the 'Connect' button to access your network.         Device       MAC address         HomePlug X1(ETH)       00:90:47:04:8f:87	
Refresh Connect Link Quality: Excellent	
OK Cancel	



Shielded cables must be used with this equipment to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

#### FCC Warning

This equipment has been tested and found to comply with the limits for a Class B Digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation



For Home and Office Use Tested to comply with FCC Standards

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