

### **EXPANDING THE NETWORK**

The network can be expanded up to 8 Powerline Pro Sockets on a single Powerline network. To add additional Powerline Pro Sockets to an existing network, log on into the Web Admin



interface on the newly installed device and run the Powerline Wizard. Choose the option "Join an existing Powerline network", enter the existing Powerline Network Password and click continue. The new Powerline Pro Socket will automatically connect to the existing Powerline network and will have its WiFi and Web Admin changed to match the existing Powerline Pro Sockets.

# ADVANCED MANAGEMENT OF THE POWERLINE PRO SOCKET

The Powerline Pro Socket has a built in 2 port managed switch which provides automatic Quality of Service (QoS) and advanced networking functionality. Each Powerline Pro Socket can have its own advanced configuration.

- All settings configured via the Wizards are automatically deployed to the other Powerline Pro Sockets connected in the same network. For example, if you want to change the WiFi Password for all the Powerline Pro Sockets, simply re-run the Setup Wizard.
- All settings made in the "Local Device Configuration" menus are for that specific Powerline Pro Socket. Changes made here are not deployed to the other devices.

### Advanced functions include:

- Name each Powerline Pro Socket
- See the estimate Powerline speeds between devices
- See the IP addresses of the Powerline Pro Sockets
- Set up a WiFi Access Point specific for this Powerline Pro Socket
- Define WiFi Schedules which automatically switch the WiFi on and off
- Enable or disable the front buttons if used in a public space
- Define a time when the Powerline Pro Socket should automatically switch off all its lights to go dark

Further information can be found in the **Powerline Pro Socket User Manual** including tips and techniques for larger or more complex installations and creating networks across multiple electrical phases. The **Powerline Pro User Manual** can be downloaded from http://help.powerethernet.com/t1501

# BEST PRACTICES:

The best practice is to hardwire all Ethernet enable devices with an Ethernet cable to free up the WiFi network for the truly Wireless devices. The Powerline Pro Socket includes:

**Two Ethernet ports**: connect your PCs, set-top boxes, game consoles, Blu-ray players, networked TVs to the Ethernet ports which frees up the WiFi network to provide a better experience for the truly mobile devices.

Built-in "Local Room" WiFi: to provide network access to the laptops, tablets and smart phones.

**Filtered Power outlets:** plug any electrically noisy devices like transformers directly into the Powerline Pro Socket to filter out the locally generated electrical noise. This improves the Powerline performance.

**USB charger:** Includes a 1.1A USB charge point suitable for the majority of mobile phones and tablets. Note: the latest generation Apple iPads need to be charged with their own chargers.

### HOMEPLUG COMPATIBLE

The Powerline Pro Socket is compatible with the **HomePlug AV** standard. If there are any other Powerline devices plugged in that are not HomePlug AV compatible, then they will stop the Powerline network from working properly.

### CONFIGURE MODE

Configure Mode is purely for accessing the Powerline Socket web admin pages and does not provide Internet access. Configure Mode can be enabled at with a long press of the WiFi button (more than 5 seconds). When enabled, the WiFi light will blink red. Configure Mode automatically switches off after 40 minutes.

# MOBILE DEVICE SUPPORT

The Powerline Socket Mobile Apps enables direct access and management of the Powerline Socket 500AV from an Apple iPhone, iPad or Android smartphone or tablet. Download links are available at

# http://help.powerethernet.com/t1501

or scan the QR Code.







If you want to make changes in the Powerline Pro Sockets' settings, there are three ways to connect back to the Web Admin page.

 Use Configure Mode: a long press of the WiFi button turns Configure mode on (the WiFi light blinks red), connect to the "PS Configure" WiFi network using your computer, smart phone or tablet and go to http://172.16.16.16 to login in.

2) Network Explorer Mode: on a

 Mobile Apps: For Apple and Android mobile phones and tablets,

Mobile App.

Microsoft Windows computer, go to

 $\textbf{Start} \rightarrow \textbf{Computer} \rightarrow \textbf{Network}$  and

Network Infrastructure. Double click

on any Powerline Socket entry to go directly to its Web Admin page.

install and use the Powerline Mobile

Connect to the existing WiFi network

App described on the next page.

(or via PS Configure) and run the

look for Powerline Sockets under





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Once logged into a Web Admin page, the other Powerline Sockets can be found in the **Powerline Devices** page along with their IP addresses and web links to their Web Admin pages.

#### Name IP Address Model 0 Study T1501 192.168.1.96 0 Master Bedroom T1501 192.168.1.97 0 Kitchen T1501 192,168,1.98 0 Loft T1501 192,168,1.99

# A NOTE ON POWERLINE BANDWIDTH SPEEDS

The estimated Powerline bandwidth between one device and the others can be viewed in the **Powerline devices** page. If the bandwidth figures appear low, click on the **Generate Bandwidth** button to generate test bandwidth.

The available bandwidth on Powerline networks is depended on a number of factors including:

# The amount of electrical interference on the power circuit:

Electrical noise on the mains wiring impacts the amount of available bandwidth on a Powerline network. Lamps with dimmers, scent plugins, mobile phone chargers, power transformers are amongst the noisiest devices. Its good practice to plug any offending devices directly into a Powerline Pro Socket as its filter will minimise the effect of this electrical noise.

### **RCBs and RCBOs:**

RCBs work fine with Powerline but RCBOs can filter the Powerline signal strength because of their large internal choke. The Powerline signal can still permeate around circuit if the source of the signal is close. Installing a Powerline Pro Socket as close to the consumer unit as possible helps gets around these issues.

### Cable distance between the Powerline Pro sockets:

The available bandwidth will decline over distance and the maximum range between Powerline Pro Sockets is 300 metres. If the electrical cables between them are longer than 300m or the quality of the power cables is not optimal, the range of communication between sockets will be reduced.

### Quality of the electrical cable:

Old electrical cable is likely to perform less well than newer cable.

### FACTORY RESET

- If required, a Factory Reset can be performed in any one of three ways:
- a) Hold down WiFi and Powerline buttons simultaneously for more than 10 secs
- b) Choose "Forgot Password" button from the Web Admin login page
- c) Via Maintenance  $\rightarrow$  Factory Reset menu within the Web Admin pages
- All the lights will blink during the factory reset. Please wait 5 minutes before using.

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# NEED FURTHER HELP?

All documentation including the latest User Guides and FAQs can be found online at http://help.powerethernet.com/t1501