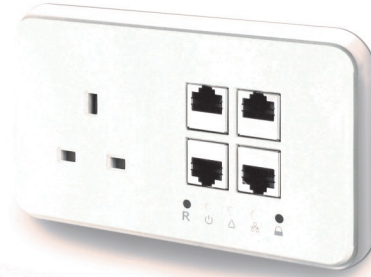


# The all-in-one Ethernet Power Socket

## General Business applications



### BENEFITS

- Simple networking solution: All in-one Ethernet enabled power socket
- High-value, low-cost means of extending the network without the need of installing CAT5/6 cabling
- No rewiring needed as the existing mains cables is used
- No need for costly structural alterations
- Provides a new class of intelligent high speed networking
- Keeps downtime to a minimum
- Minimal disruption and mess
- Easy to install by any electrician
- Eliminate coverage black spots

### KEY FEATURES

- Ethernet at up to 200Mbps across a meshed network
- Connect to a broadband router to share Internet access
- High speed managed switch for business class networking
- Fast enough to stream High Definition (HD) video
- Supports Quality of Service (QoS) and tagged VLANs
- Supports Windows, Mac, Linux and all operating systems with TCP/IP support
- Encrypted with 128bit AES security
- Compatible with the HomePlug AV standard
- Fits a UK standard two-gang 35 mm deep metal back box
- And of course power

## Freedom to access the network from anywhere in the building

With the growing requirement for network access and VoIP telephones on every desk, few businesses have enough Ethernet ports to go around. Although WiFi is used for mobile staff, it is not reliable or fast enough to be used as a primary network medium.

## The challenge

Installing dedicated links such as CAT5/6 cables is both expensive and disruptive to a business in terms of downtime. It is so disruptive that companies often delay adding additional ports until it becomes absolutely necessary, which reduces their productivity. Makeshift cabling fixes tend to be a risk in terms of Health & Safety.

In older buildings, installing cabling can be problematic and therefore expensive. High-density building materials such as flint, stone and metal often make it impossible to set up a reliable WiFi network.

How to expand the network in a cost-effective way without the cost and disruption of having to install additional CAT5/6 cabling?

## The solution

The Power Ethernet's PE Sockets are suitable for businesses of all sizes and are flexible and expandable.

By simply replacing the existing power sockets with our unique PE Sockets, a secure Ethernet network is immediately created allowing business to quickly extend their network with the minimum of disruption and cost.

The PE Sockets are UK Standard in size and simple to install by any electrician with all the advantages of reliability, compliance with Health & Safety regulations and aesthetic appeal.

A fast, reliable, cost effective solution that keeps the business communicating.



## How do the Power Ethernet Sockets work?

The PE Sockets incorporate the Atheros INT6400 PowerLine chipset (which is compatible with HomePlug Alliance AV standard) along with other complementary technologies to create a high speed secure network by utilising the existing mains cables available throughout any building.

The PE Socket's unique design incorporates all of the electronics inside the wall socket. Replacing two or more traditional UK double-gang wall power sockets with PE Sockets instantly creates a high-speed, secure Ethernet network without the cost and disruption of installing additional cabling.

The PE Sockets have an integrated mains filter which improves the data transmission speeds and the units automatically go into power save mode for reduced power consumption when the network ports are not being used.

The network backbone is robust and encrypted with 128bit AES security and as the PE Sockets are simple to install by any electrician, it benefits from a tamper and theft proof installation.

The PE Socket incorporates a high speed managed switch with 4 Ethernet ports which eliminates the need for adding additional network switches. This removes the clutter and hassle of additional cables under desks or behind televisions and provides a solution with all the advantages of reliability, Health & Safety compliance and aesthetic appeal.

Multiple applications can be run across the Power Ethernet network throughout the building including:



High speed Ethernet networking



Connect to the Internet everywhere in the building



Smart Metering and Smart Home applications



Network backbone for Home Automation



Triple Play services



Voice over IP telephony



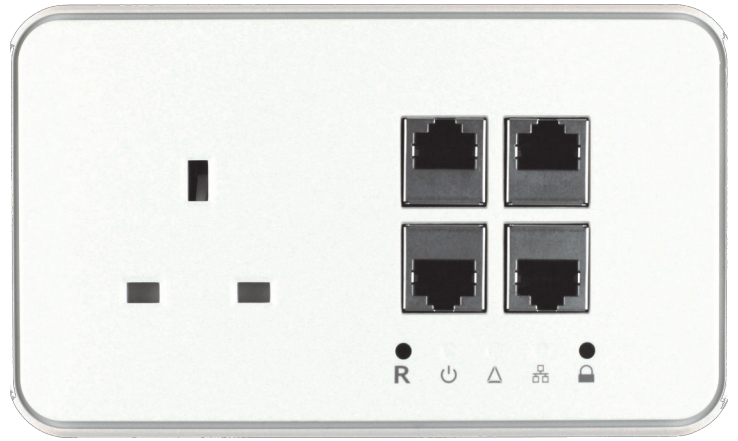
IPTV and Video on Demand



CCTV Surveillance



Digital Signage



## Supported Standards

- Ethernet at up to 200Mbps across a meshed network with shared Internet access
- Connect to a broadband router to share Internet access
- High speed managed switch for business class networking
- Fast enough to stream High Definition (HD) video
- Supports Quality of Service (QoS) and tagged VLANs
- Supports Windows, Mac, Linux and all operating systems with TCP/IP support
- Encrypted with 128bit AES security
- Utilises the Atheros INT6400 chipset which is compatible with HomePlug Alliance AV standard
- Fits a UK standard two-gang 35 mm deep metal back box
- Supports TV over IP (IPTV), Voice Over IP (VoIP), Digital Signage and Security CCTV cameras
- And of course power

Two or more HomePlug AV compatible devices are required. The power outlets must be electrically connected sharing the same power rail in order for Powerline devices to provide a network connection between them.

