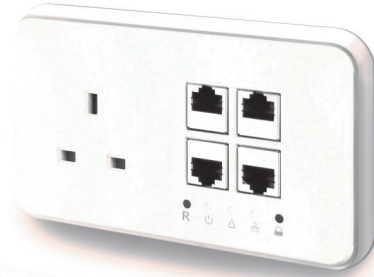


The all-in-one Ethernet Power Socket

Temporary and Specialist Structures



BENEFITS

- High-value, low-cost simple network solution: an all-in-one Ethernet enabled power socket
- Internet access everywhere in the installation
- Removes the need, cost and time to install network cables: no digging as it uses the electrical cables already installed
- Reduces costs: no need for specialised staff as any electrician can install it quickly and easily
- New class of intelligent high speed networking
- Is easy to expand: simply add more Power Ethernet Sockets
- Adds value: users are prepared to pay more for a network-ready temporary building

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

Get connected quickly

Providing on-site high speed, high reliability and secure network access within temporary buildings from portable cabins to oil rigs has become indispensable as site workers need the ability to share remote documents and collaboration systems located on corporate networks.

The challenge

Installing cables is expensive, it takes time to be installed as it involves digging and there is often a risk of damaging the fibre laid across sites. When repositioning is needed, cables have to be dug up and reinstalled.

WiFi is not robust and is not secure enough to transmit demanding bandwidth applications.

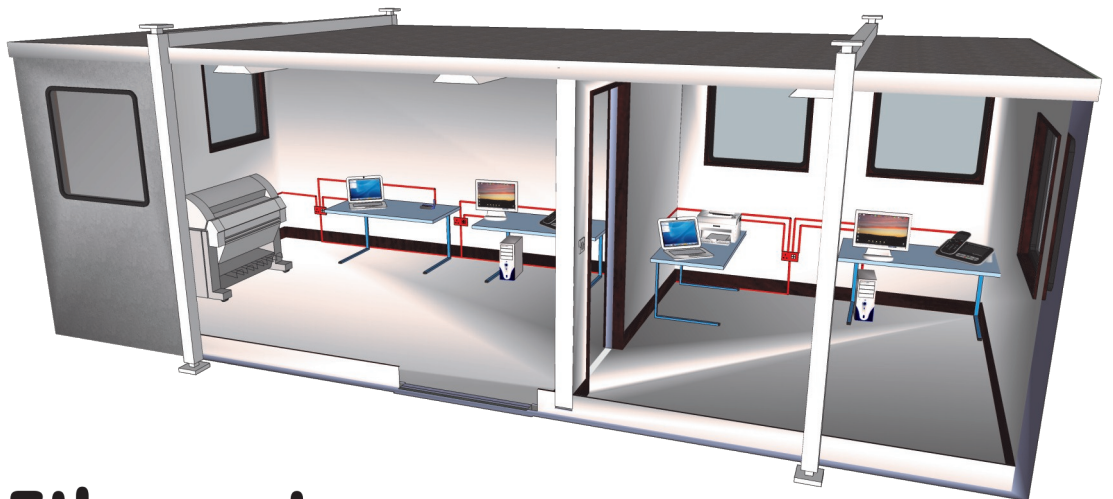
How to deploy more skilled labour in the field, basing them on site and provide them with all the IT they would use in the office without the need of cables or reliance on WiFi networking?

The solution

Power Ethernet provides a high speed, highly reliable networking solution that is ideal for temporary buildings as it uses the electrical cables already installed as the transport mechanism of digital data and multimedia.

By simply replacing the existing power sockets with the PE Sockets, a secure Ethernet network is instantly created without the cost, time and inconvenience of installing cabling or reliance on WiFi.

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.



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.

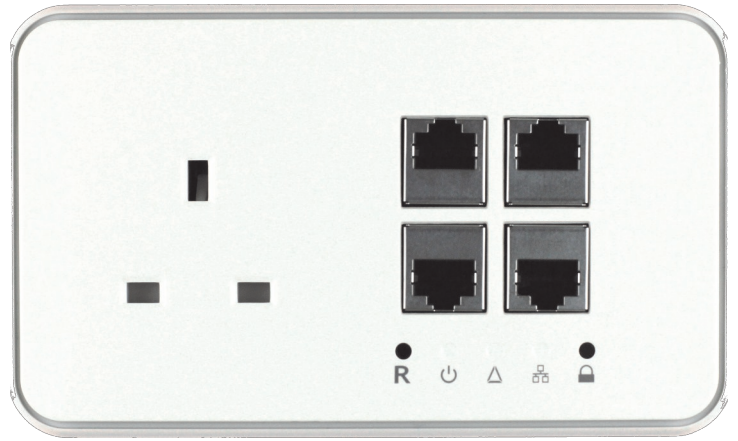
The PE Sockets have an integrated mains filter which improves the data transmission speeds and the units automatically go into power save mode for reduced power consumption when the network ports are not being used.

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	 Network backbone for Home Automation	 IPTV and Video on Demand
 Connect to the Internet everywhere in the building	 Triple Play services	 CCTV Surveillance
 Smart Metering and Smart Home applications	 Voice over IP telephony	 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.

