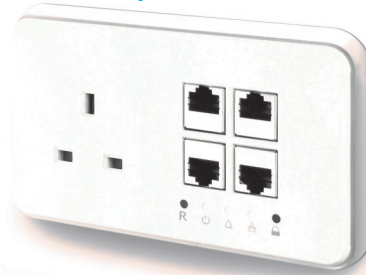


The all-in-one Ethernet Power Socket

Hospitals and Surgeries



BENEFITS

- No rewiring needed as the existing mains cables is used
- No costly structural alterations
- Saves the cost and the disruption of installing CAT5/6 cables and the equipment to support them
- No need for expensive cleaning post installation
- Minimal disruption and mess
- Keeps downtime to minimum
- Protects the data by encrypting the network with 128bit AES security
- 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

Secure network access throughout the building

Hospitals have identified a need for a stable, reliable and secure network solution for its management systems, including patient information, patient Internet access and material ordering systems. They are looking to move away from paper-based systems that had room for errors or misinterpretation of handwritten notes.

The challenge

Installing Ethernet cables is both expensive and disruptive; the cables need to be channelled into the wall or surface-mounted using unsightly trunking. In clean rooms, there is the requirement and cost of a specialist clean after installation.

WiFi is not robust enough to eliminate coverage black spots.

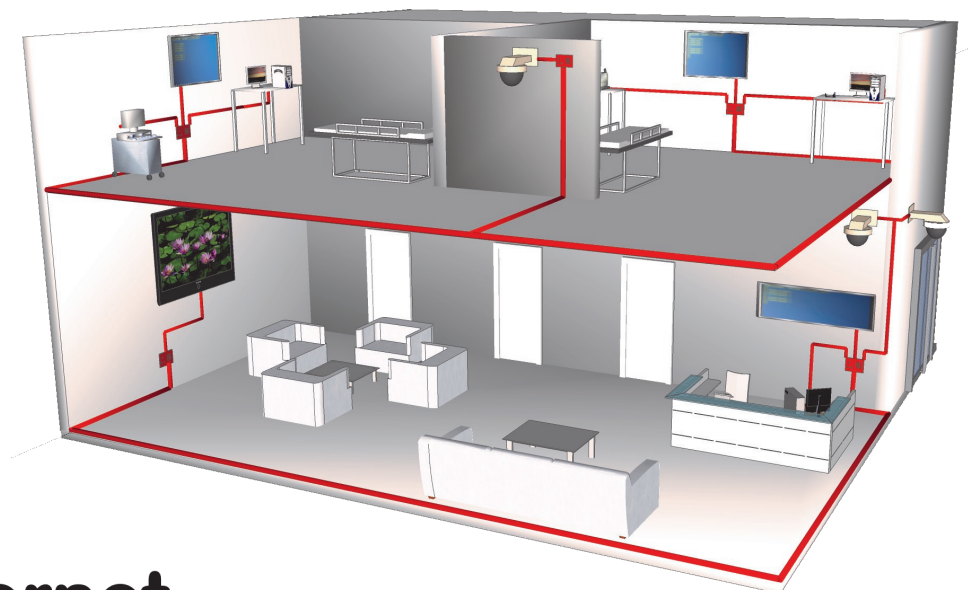
How to have a reliable and secure network solution, that is easy, "clean" and non-disruptive to install without the need of installing expensive cabling or reliance on WiFi networks?

The solution

Power Ethernet provides the best solution to securely manage the hospital and surgeries systems efficiently.

By simply replacing the existing power sockets with our unique PE Socket a high-speed, secure network is instantly created using no more than the existing wiring in the building.

The PE Sockets are UK Standard in size and easy 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.

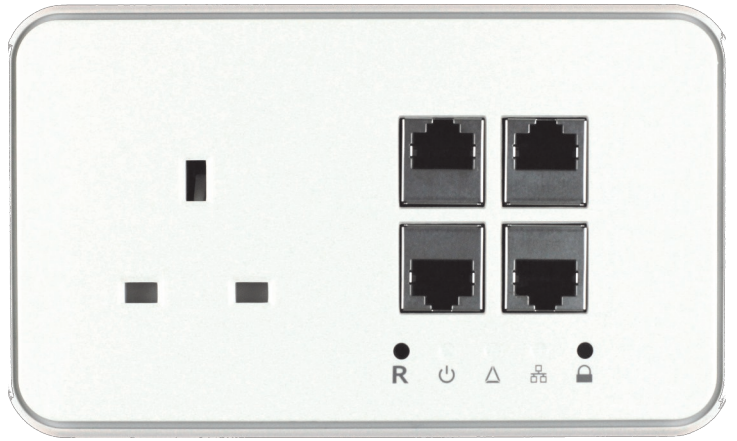
The PE Sockets have an integrated mains filter which improves the data transmission speeds and the units automatically go into power save mode for reduced power consumption when the network ports are not being used.

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.

