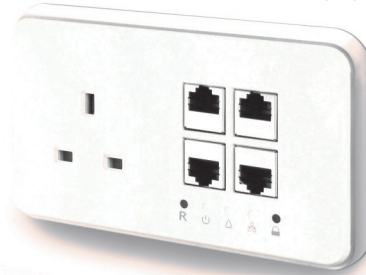


The all-in-one Ethernet Power Socket

Maritime applications



BENEFITS

- High-value, low-cost means of providing Ethernet in every room without any disruption.
- Provides a unified network for Internet, Video on Demand and VoIP (known as "Triple Play")
- New revenue streams by providing Internet access in each cabin
- No rewiring needed as the existing mains wiring is used
- No need for costly structural alterations
- Saves the cost and the disruption of installing CAT5 cables and the equipment to support them
- Easy Installation.
- 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

Helping ship owners get connected

Having Internet access on cruise lines and other ships is not a luxury anymore but is demanded by the staff and customers. In order to provide greater hospitality and increase competitiveness ship owners can now provide Internet access in each cabin and create new sources of revenue.

The challenge

How to install a high speed networking solution capable of delivering any kind of multimedia services in every room without the need of expensive cabling, that is non disruptive and is easy to install.

Installing structural cabling is disruptive and demands space which is a scarce resource in a ship.

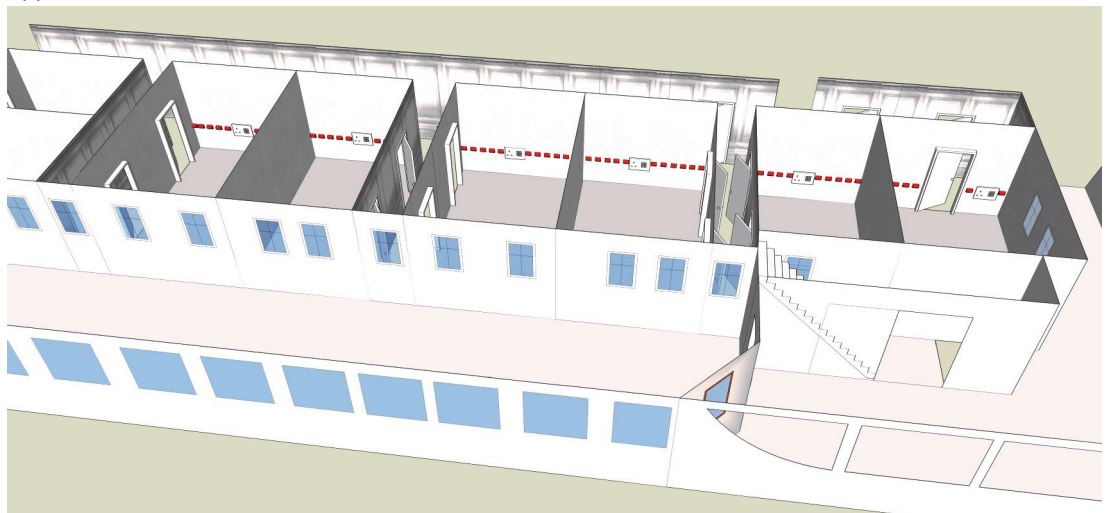
WiFi is complex and expensive to install especially as the signal can be disrupted by the metal on the ship and therefore is unsuitable to transmit multimedia services and other demanding applications.

The solution

Power Ethernet provides a seamless and non disruptive solution for cruise ships that want to benefit from Internet access in every cabin.

The PE Sockets unique design incorporate four switched Ethernet ports inside the wall socket which unlike the adaptors, cannot be unplugged, knocked out or stolen. The sockets can be easily installed by any electrician.

The PE Sockets take advantage of the existing wiring in the ship to create a secure and reliable network 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.

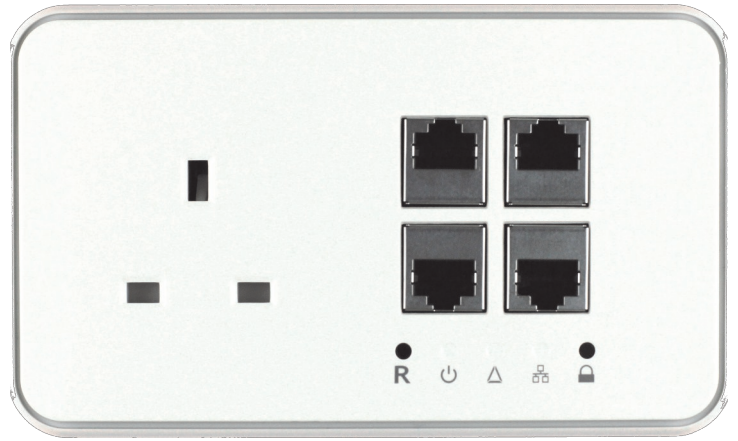
The PE Sockets have an integrated mains filter which improves the data transmission speeds and the units automatically go into power save mode for reduced power consumption when the network ports are not being used.

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.

