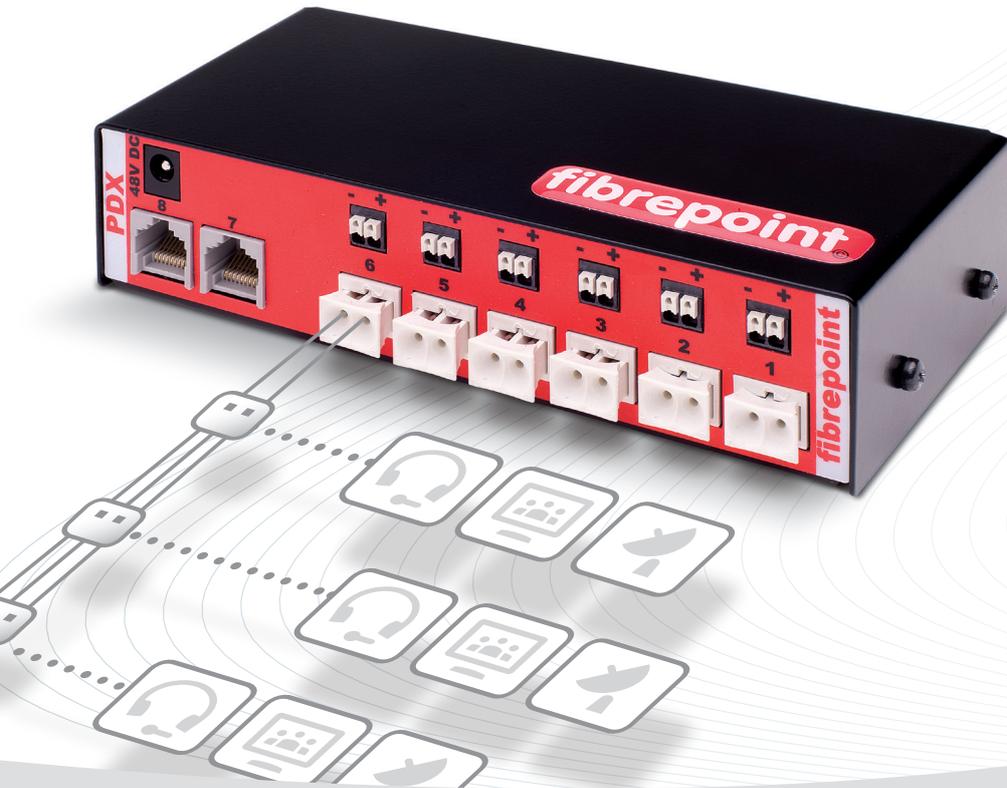


The Fibrepoint®

PDX

Optical Power Data eXchange 250

Ethernet & Low Voltage
Dc48™ SWITCH



At the heart of a fibrepoint® optical network is the fibrepoint PDX (Power Data eXchange) it combines a high speed Ethernet switch and a Dc48™ compatible power distribution system.

The PDX comes with two RJ45 compatible network ports and six optical network and power ports for an interference free home network that is ideal for IPTV systems where lost Ethernet packets can be easily seen as interference to the television's picture.

Attach just one PDX with our hybrid network cable to the fibrepoint WallPorts and you can have up to 24 Ethernet outlets and all the benefits of an optical backbone with the convenience of copper.

The standard fibrepoint PDX can be configured with number of special features that can be integrated into the design of a Fibre-to-the-Home system. These include the potential to cater for multiple service providers offering VOIP telephone, IPTV and other Internet services all traveling transparently across the same network using the fibrepoint VLAN's and QOS configurations through to individual ports on the fibrepoint WallPort network outlets.

Custom versions of the fibrepoint network PDX can be supplied with a battery backup system that can maintain power to selected network outlets in the event of a local power failure allowing an emergency telephone service for VOIP systems. Backup power for the fibre-to-the-home service provider's ONT/ONU can be included via the PDX, Dc48 facility.



Up to 24 network ports per PDX



Battery Backup options



DC Power Network



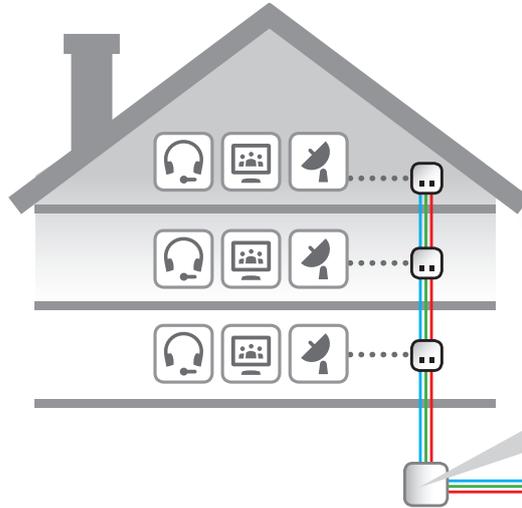
Installing a Fibrepoint system is very simple as no special tool required. The optical cables can be cut to suit the installation using the cutting tool provided with the PDX. The ends of the fibre need no polishing and a clean cut is all that is required.

The 650nm red light used is both visible and eye safe, so it is easy to see when a fibre is active.

The Dc48™ power system means that you can put a power/data outlet where you need it, the low voltage DC power is designed to be safe for the home installer and required no special training or training or certification to carry out installation.

Most devices in your home run on low voltage, DC power. The mains is AC and needs to be converted to DC to run your devices in your home like the TV, Computer, Hi-Fi, Radio. This conversion, and the drop in voltage, can lose you over 25% of the energy.

Fibrepoint is working on a number high efficiency (98-99%) DC power adapters to enable the efficient use of DC power and remove the need for AC mains adapters.



PDX

Optical Power Data Exchange 250

Features

- High performance
- Unique, interference free optical backbone cable
- Eye-safe red light
- Low voltage 48v DC powered
- Consumer installable, no special skills or qualifications required
- Simple installation, no special tools required
- RJ50 backwards compatible with RJ45, CAT5e
- Push-fit electrical termination blocks
- Simple test and verification of operational status
- Aesthetically pleasing, easily identifiable
- Expandable
- Individually packed

Technical specification

- Size: 166mm x 80mm x 38mm (excludes mounting brackets)
- Input Ports: 2 x RJ50 (RJ45 compatible)
- Contacts: 10 pin Phosphor Bronze
- Insertion Life: Minimum 750
- Optical Termination 6 or 7 Firecomms OptoLock® 1.5mm
- Optical Source: Eye-safe, 650 nm red light
- Cable requirements - fibrepoint® Hybrid
- Operational Voltage: 48v DC
- Requires additional fibrepoint® Power Supply



Large national grids have been the major investment for many countries but, by their nature, they are very

inefficient with losses as high as 60% occurring from just transferring and converting the power around the grid before it gets to your home.

With wind and solar power systems producing low voltage DC power, The Grid is probably the last choice of where we should be sending our locally produced power. Local storage and usage should be the first choice for powering our homes and the growing number of DC devices. Then convert the excess to AC for domestic white goods like ovens and washing machines, before exporting any surplus to the grid.

The Dc48™ system is designed to enable access to low voltage DC around your home. Its ability to transfer power in both directions could let you use the battery in your laptop to power your network and keep the communication services running in emergencies. With a flexible power system the opportunities are endless.

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