Power Patch Panel

Your head end solution for media conversion & PoE extension
Power Patch Panel

NO MORE 90 METER LIMITS!

PoE powered devices are becoming more and more common in today's IT systems infrastructure. With these new PoE devices comes the challenge of finding ways to power them beyond the 90 meter Category cable limitation. Fiber Connections Power Patch Panel helps solve this problem by allowing you to consolidate all of your media conversion and PoE injection from a central location that allows you to drive PoE up to 4750 meters. The system can be configured to accommodate almost any number of ports, power levels and distances.

KEY FEATURES

- standard 19” 2U and 4U chassis sizes
- up to 6 modules per 2U and 12 modules per 4U
- up to 6 RJ45 ports per media module
- extra power supplies can be added for redundancy
- 10/100/1000base TX copper ports on media modules
- all devices connected through the system can be backed up with a single UPS.

- systems can be configured with or without hybrid cabling
- connection to your PoE device is made using standard category cable
- class 2 compliance is available
- system can provide PoE, PoE+ and PoE++ power
- LC or MTP connector options
- modular design for easy moves/adds/changes
Power Patch Panel

LONG DISTANCE PoE EXTENSION!

The system is completely modular and easy to assemble. Power Supply Modules are used to source power from standard AC receptacles and provide the required DC voltage to operate the Media Modules and remote devices such as a remote GatorLink unit. Standard Category cables are used to connect the front RJ45 ports of the Media Module with a network switch. Hybrid (copper/fiber) cables then connect with the rear of the panel to source the data (over fiber) and power (over copper) and deliver it to the remote location. Media Modules can also be configured to drive PoE directly from the front RJ45 ports when the PoE device is within 90 meters.

6 Port PoE Link up to 800 meters or PoE+ up to 200 meters

Single Port PoE Link up to 4750 meters or PoE+ up to 1100 meters
**Power Patch Panel Chassis**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PP4UT00-001</td>
<td>4U Power Patch Panel, 12 Slot, Terminal Blocks</td>
</tr>
<tr>
<td>PP4UT00-002</td>
<td>4U Power Patch Panel, 12 Slot, Terminal Blocks, Class 2</td>
</tr>
<tr>
<td>PP2UT00-001</td>
<td>4U Power Patch Panel, 6 Slot, Terminal Blocks</td>
</tr>
<tr>
<td>PP2UT00-002</td>
<td>4U Power Patch Panel, 6 Slot, Terminal Blocks, Class 2</td>
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**Power Supply Modules**

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>PS1256400AN-001</td>
<td>Power Supply Module, 12VDC, 56VDC, 400W, AC Input, North American Plug, 2 Slot</td>
</tr>
<tr>
<td>PS5600250AN-001</td>
<td>Power Supply Module, 56VDC, 250W, AC Input, North American Plug, 1 Slot</td>
</tr>
<tr>
<td>PS1256400AA-001</td>
<td>Power Supply Module, 12VDC, 56VDC, 400W, AC Input, Australia Plug, 2 Slot</td>
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**Media Modules**

**Power Out**
- PP: Remote:PoE+ 30w / Source:65w for POE+ & POE++
- PH: Remote:PoE++ 60w / Source:NA
- 00: None

**Incoming Fiber Conn.**
- L: LC Duplex
- M: MTP/MPO(m)
- N: 2 x LC Duplex

**# Copper Ports**
- 4 Port
- 6 Port

**Communication**
- B: 10/100/1000T & 1000BaseSX
- C: 10/100/1000T & 1000BaseLX
- F: 10/100/1000T & 100BaseFX
- G: 10/100/1000T & 100BaseLX

**Fiber Type**
- S: 50/125 OM3
- A: 50/125 OM4
- 0: SM OS2

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OUTDOOR 1 PORT GATORLINK

ORDERING INFORMATION AND TECHNICAL SPECIFICATIONS

1-800-353-1127 | www.fiberc.com

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### Standards
- Ethernet IEEE Std. 802.3i/u/ab/z, Power Over Ethernet IEEE 802.3at

### Controls
- Power Supply Module On/Off Switch

### Housing
- Steel panel and module chassis finished in black powder coat paint with aluminum module covers.
- Power Patch Panel: 4U Size 19"x7"x8", 2U Size 19"x3.5"x8" Power Supply Module: 5.8"x3.4"x8.2".
- Media Modules: 5.8"x1.6"x8.2"

### Power Source
- Power Supply Module 100 -240VAC

### Capacity
- Panel: 4U Size -12 Slots, 2U Size -6 slots
- Power Supply Modules: 2 Slot Size-400W(150W@12V & 250W&56V)
- Media Modules: 1 Slot size, 4 and 6 port capacity

### Media Module
#### Fiber Optic Ports
- Primary Fiber Optic Port: LC duplex or 8-12 fiber MTP(m) connectors
- Fiber Type: 50/125um OM3 or Single Mode
- Wavelength: MM 850nm or 1300nm, Singlemode 1310nm
- Fiber Tx/Rx Speed: 100Mb/s or 1Gb/s
- Mode: Full Duplex
- Distance: MM:100mb/s-2 km 1gb/s-600m or SM(1310nm):5km
- Optical Loss Budget: MM: 100mb/s 10-15dB 1Gb/s 6-8dB   SM: 16 to 29dB depending on configuration

#### Copper Ports
- Copper Port Interconnection: 8P8C (RJ-45) Modular Socket connectors
- Copper Rx/Tx Speed: 10/100/1000 BaseT
- Mode: Half/full duplex auto negotiated
- Distance: 100M (330 ft) cat 5/6
- POE: 44-57VDC, PD detection signature, over current protection, under current detection (802.3at) PoE (15wPSE), PoE+(30W PSE), PoE++(60W PSE)
- RX/TX Cross-over: Auto MDI, MDIx configuration

### Indicators
- Power Supply Module- Power On
- Media Module-Fiber Link/Activity, Copper Link/Activity, POE active LED for each media conversion channel

### Weight
- Power Patch Panel: 4U-13 lbs, 2U- 7lbs. Power Supply Module: 2 Slot- 4.5 lbs, 1 Slot 3.2lbs. Media Modules: 1.75 lbs.

### Temperature
- Operating: 0 to 50 Degrees C

### Environment
- 0 -90% non-condensing humidity, 0-10,000 ft altitude

### Compliance
SCHEMATICS

1 Slot Power Supply Module

2 Slot Power Supply Module

Media Module

Rear view — MTP connection

Rear view — LC connection