



Chameleon – Power Patch Panel Equipment

At the head end of the Chameleon network, a Power Patch Panel (PPP) houses the power supply and the media converter modules. The Patch Panel is available in a 4U or 2U version and houses the power



supply unit (2 spaces) and the media modules (1 space) that are best suited for each application. The modules are delivered ready to plug into the panel. Depending on the application, copper cables with RJ45 connectors are connected on one side of the media converter and our hybrid cable assemblies will connect on the other side – providing data and power out to your remote locations. Fiber can be connected with LC, SC or multi-fiber MTP connectors. Power connection can be via terminal blocks or various standard connectors.

The Panel end of a Chameleon System consists of:

- A Power Patch Panel Rack Mounted Unit
- At least 1 Power Supply Module with power cord
- Media Converter Modules

APPLICATIONS

- Security Camera Networks
- Wireless Access
- FTDD - VoIP phones and thin clients
- Secure Government Networks
- Large Retail and distribution sites
- Ports and Rail stations
- Intelligent Transportation networks



FEATURES/BENEFITS

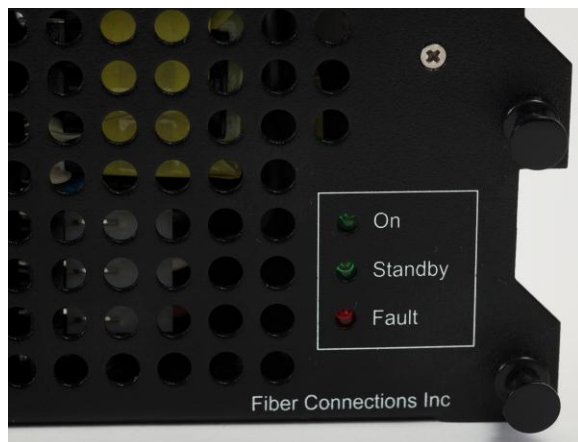
- Modular design - easy to add/change
- 12 & 56V DC, 300W Power Supply
- Optional 2nd power supply for added protection
- 10/100/1000Mb/s data options
- Mix fiber and copper ports in 1 unit
- Available with N. American, European or Aus/NZ power cords
- Mix media conversion and fiber distribution if required
- Multimode or single mode fiber
- LC, SC or MTP fiber connector options
- Standard RJ45 copper interface
- Up to 6 ports per plug-in module
- Up to 10 modules/4U panel



The Power Patch Panel can be configured for specific customer needs and for planned future network growth. Slide-in rails make installation of the modules fast and easy. Here is a closer look:



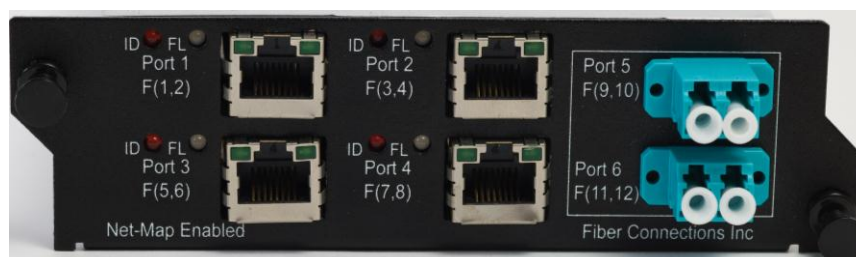
PPP with 1 power supply installed and 1st media converter module installed. Hybrid cable connects 2 fibers (LC connectors) and 2 copper conductors (via terminal blocks) to transmit data and power for PoE to the remote end.



Front of Power Supply Module



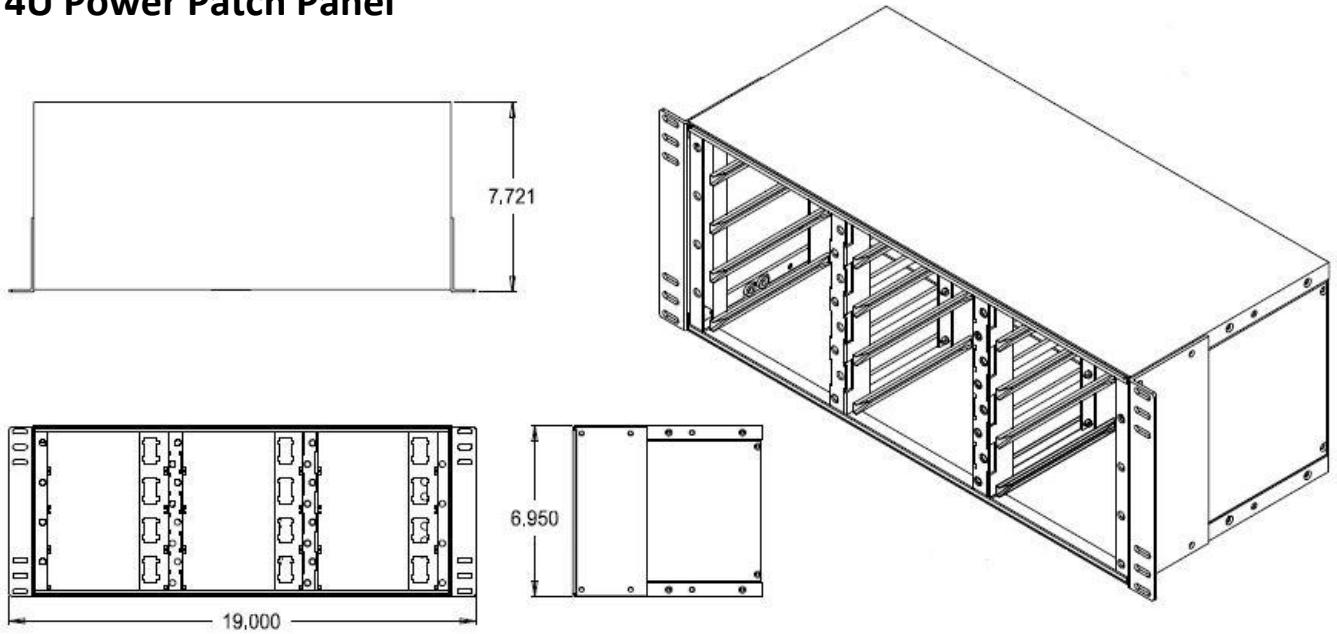
PPP with Power Supply plugged into power source. Showing 3 media converter modules with multi-fiber MTP connections and M8 connectors ready for hybrid cable connection.



Close up of media module with 4 media converter ports and 2 fiber ports.

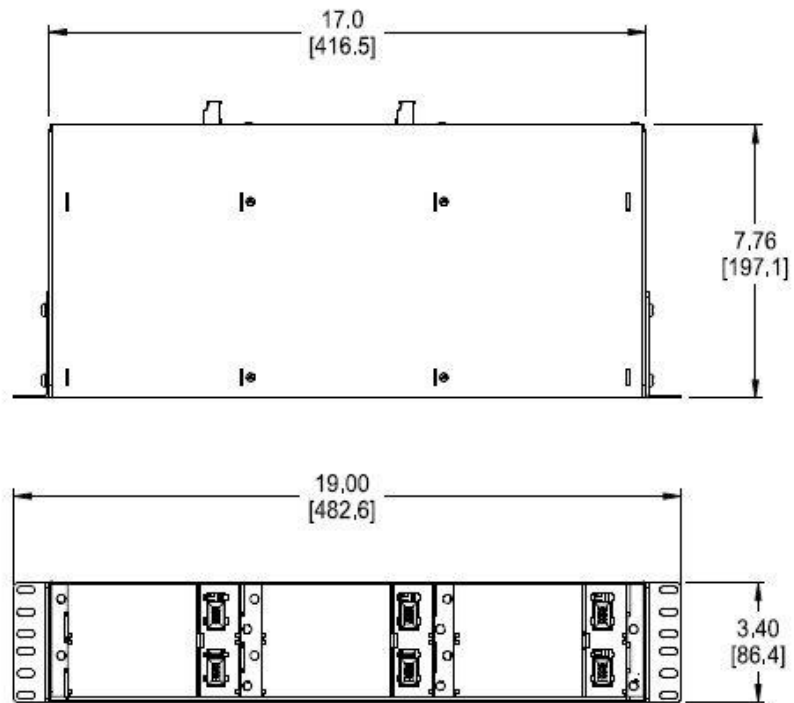


4U Power Patch Panel



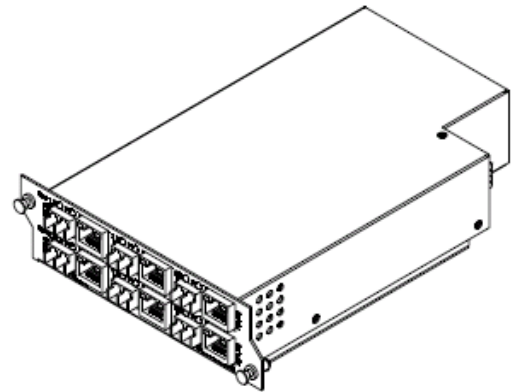
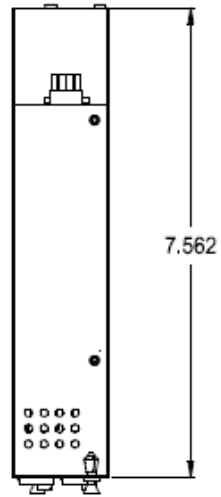
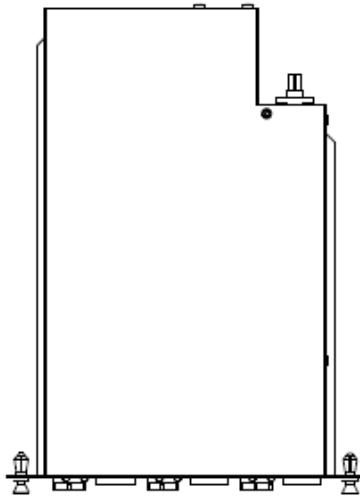
2U Power Patch Panel

2U Power Patch Panel

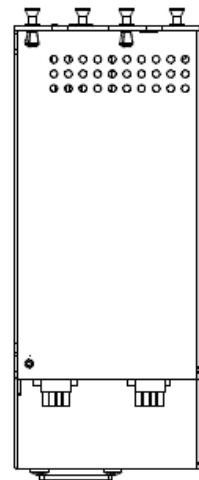
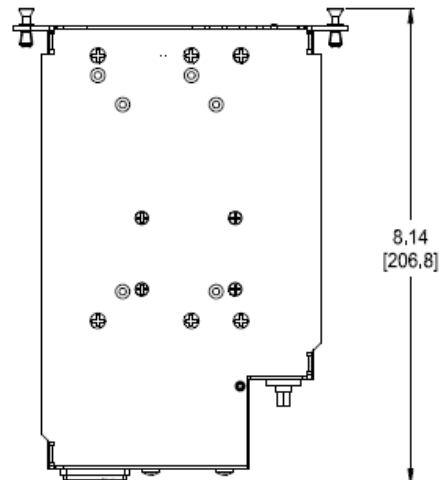
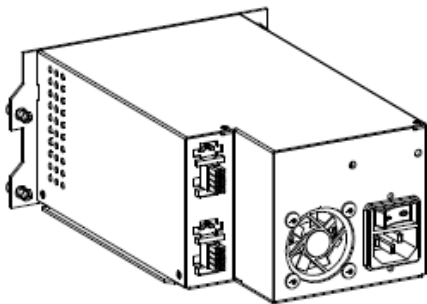
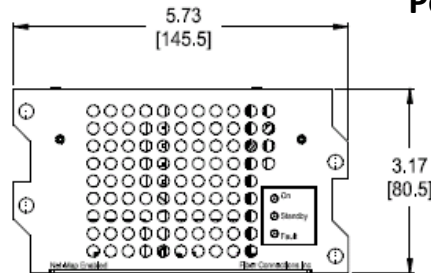
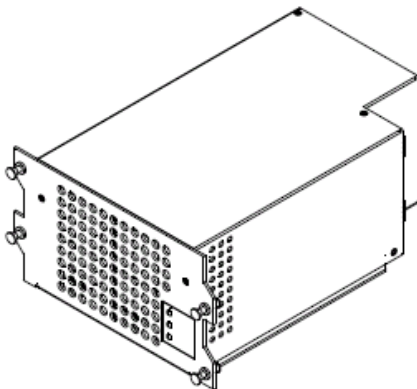




Media Converter Module



Power Supply Module





Technical Specifications

Standards	Ethernet IEEE Std. 802.3i/u/ab/z, Power Over Ethernet IEEE 802.3af	
Controls	Automatic Operation, LinkMap management system available on some models	
Housing/Panel	Steel panel and module chassis finished in black powder coat paint. Panel can be configured with terminal blocks, M8 or circular connectors for power distribution. - See diagrams for specific component dimensions.	
Power Source	95 -240VAC power for each Power Supply Module installed. Main power supply: 12 & 48VDC output at 300W. Power cord available with North American, European or Aus/NZ plug. Power usage (10-90 watts) is depending on the modules installed in the PPP, plus power passed through the hybrid cable to GatorLinks is dependent on the system configuration.	
Capacity	12 Slot 4U panel accepts 1 or 2 power supplies and up to 10 media modules. Media modules each support from 4 to 6 fiber pairs.	
Fiber Optic Ports	Primary Fiber Optic Port	LC duplex or 8-12 fiber MTP(m) connectors (module dependent)
	Pass Through Fiber Optic Port	SC or LC duplex (module dependent)
	Fiber Type	62.5/125µm, 50/125µm or Single Mode
	Wavelength	850nm or 1300nm or 1310nm or 1550nm
	Fiber Tx/Rx Speed	100Mb/s or 1Gb/s
	Mode	Half or Full Duplex
	Distance	MM: 2 km or SM: 20 km @1310nm or 60km @1550nm
	Optical Loss Budget	MM: 10 to 15dB depending on configuration SM: 16 to 29dB depending on configuration
Copper Ports	Copper Port Interconnection	8P8C (RJ-45) Modular Socket connectors
	Copper Rx/Tx Speed	10/100Mb/s auto negotiated or 1000Mb/s
	Mode	Half duplex or full duplex auto negotiated
	Distance	100M (330 ft) cat 5/6
	POE	44-57VDC, PD detection signature, over current protection, under current detection (802.3af) (802.3at in development)
	RX/TX Cross-over	Auto MDI, MDIX configuration
Indicators	Power Supply Module Power On, Standby and Fault LEDs Fiber Link/Activity, Copper Link/Activity, POE active LED for each media conversion channel Port Identification (remote locate) LED available on some models	
Weight	Power Patch Panel: 13 lbs. Power Supply Module: 4.5 lbs. Media Modules: 1.75 lbs.	
Temperature	Operating: 0° to 50° C, (Extended range available), Storage: -40° to 55° C	
Environment	0 -90% non-condensing humidity, 0-10,000 ft altitude	
Compliance	CE, FCC Part 15	