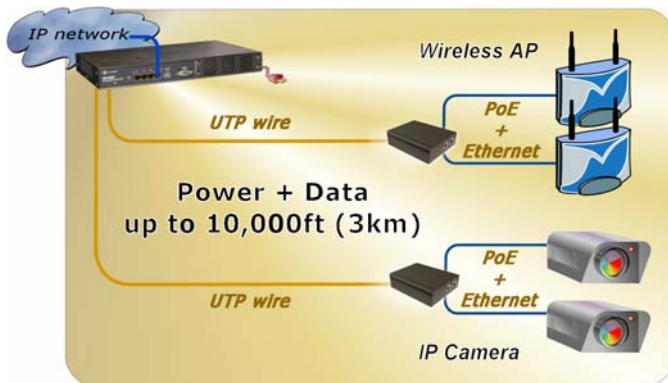


PowerBroadband XLP-6800

Long Distance Data and Power over UTP wire



- ✓ **Four Class 0/1/2/3 PoE ports**
IEEE 802.3af compliant
- ✓ **75Mbps Bandwidth**
superior signal/noise isolation
- ✓ **10,000ft (3,000m)**
single-sourced power

XLP-6800 delivers power and IP connectivity at distances up to 10,000ft (3km) using existing or new copper UTP wire. Innovative transmission techniques developed by Tut Systems result in a fiber-like transmission quality over unprecedented distances. Remotely power IP cameras and Wi-Fi access points.

Automatic fault protection and power monitoring ensure reliable delivery of essential power and data to remote locations. Maximum network availability guaranteed by centrally located UPS. Absolutely no need for remote AC power circuit.

Operators in diverse enterprises will now be able to deploy any PoE device in any service location. Deploy network security cameras, wireless access points, security/RFID scanners, or building access systems in any place where you have basic wire connectivity.

- as simple as connecting an Ethernet cable

PowerBroadband XLP-6800 benefits:

➤ High Availability	Maximize network uptime and centralize power for all remote devices.
➤ Standards Based	Connect to standard IEEE 802.3af Ethernet PoE devices, class 0, 1, 2, or 3.
➤ Flexibility	Removes the 300' distance limitation of Ethernet – for both PoE power and data.
➤ Management	Be in command of power budget and requirements. Sophisticated power management including power priority on a per port basis.
➤ Simplicity	Easily add/move/change to any location over existing or newly pulled wires. Quickly manage using intuitive web-GUI management.
➤ Savings	Reduce engineering time and eliminate requirements for new power sources for remote Ethernet devices.

XLP-6800 PowerBroadband System

The XLP-6812 master and XLP-6802 client provide Extended Length Power and High Speed symmetrical Ethernet connections over 2 or 4 pairs of UTP copper wire infrastructure; cat2, 3, 5 or greater. Refer to the Rate and Reach chart for performance when using 2 or 4 wire pairs. For maximum performance, use 4-pair cat-5 UTP wire.

Ethernet ^{XD}	Programmable QAM modulation Optimized Symmetrical data rates
Interfaces	XLP-6812 Master 4 x RJ45, 10/100Mbps auto-sensing 2 x keyed UTP Connectors 1 x dB9, female console port XLP-6802 Client 2 x RJ45, 10/100 auto-sensing with POE 1 x keyed UTP Connector
Power	100 – 240VAC, 50/60Hz; 300 Watts max 30.8Watts per 6802 client allocated to PoE
Management	Extended Power Management Port power priority Port on/off Automatic short/fault protection Power statistics, Power device class System Console, Telnet, Web UI SNMPv2c standard and enterprise MIB Multi-level Password protected Syslog server FTP software updates Config script support
Physical	XLP-6812 Master: Rack or wall mount (14" x 9" x 1.75") / (35.5cm x 22.8cm x 4.4cm) XLP-6802 Client: Wall Mount, DIN mount (4" x 6.5" x 1.5") / (10cm x 16.5cm x 3.8cm)
Environment	6812 Operating Temperature: 0c to +50c 6802 Operating Temperature: -20c to +60c Humidity: 5% to 95%
Compliance	EN60950-1, UL60950-1, CE, FCC Part 15A
Networking Protocols	802.1, 802.3 Ethernet standard protocols TCP/IP protocol suite
Multicast Protocols	IGMP v1/v2 Proxy with IGMP Fast Leave 256 IP Multicast groups
QoS	2 transmission queues per port Packet classifier: 802.1P, Physical port
VLAN	802.1Q tagged VIDs: 2 – 4095 Port or Tagged based VLANs 128 concurrent tagged VLANs
L2 switching	8k MAC table

XLP-6800 Rate and Power Reach

Distance	Line Rate (Mb)		Available Power (watts)	
	2 wire pairs	4 wire pairs	2 wire pairs	4 wire pairs
500ft (150m)	75/75	30.8	30.8	30.8
1000ft (300m)	70/70	30.8	30.8	30.8
2000ft (600m)	60/60	22.0	30.8	30.8
3000ft (900m)	40/30	13.0	26.0	26.0
4000ft (1200m)	25/25	9.0	22.0	22.0
5000ft (1500m)	20/20	6.0	17.0	17.0
6000ft (1800m)	10/10	4.0	13.0	13.0
7000ft (2100m)	10/10	3.0	10.5	10.5
8000ft (2400m)	5/5	2.0	8.5	8.5
9000ft (2700m)	5/5	1.0	7.0	7.0
10kft (3km)	5/5	0.0	6.0	6.0

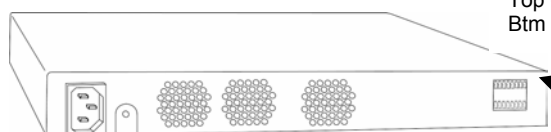
* Available power is limited by the 802.3af PoE specification to 15.4watts per PoE port. Power is available per XLP-6802 client at the indicated distance. Each XLP-6802 supports 1 or 2 PoE devices.

Note: at 10kft with 2 wire pairs, the XLP-6802 client is self-powered and will operate as an Ethernet extender. To have extra power available for PoE devices at 10kft, you must use 4 wire pairs.

Ordering Information

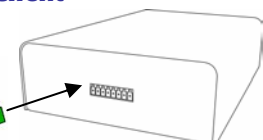
Part Number	Model	Description
42102	XLP-6812	XLP Master. 4 Ethernet ports, 2 UTP ports. Requires 1 or 2 XLP-6802 client
42002	XLP-6802	XLP Client. Two PoE Ethernet ports. 1 UTP port. Supports PoE Class 0/1/2/3 devices. Requires XLP-6812 master

XLP-6812 Master



2 x 8-pin keyed UTP connector
Top connector: XLP port 1
Btm connector: XLP port 2

XLP-6802 Client



8-pin keyed UTP connector
Power supplied from
XLP-6812 master

Up to 10kft – Twisted copper wire (UTP)