



XLP-6800 PowerBroadband System

Deliver power and Ethernet to remote IP cameras and Wi-Fi access points up to 10,000ft (3,000m) away.

XLP-6800 system delivers power and IP connectivity at distances up to 10,000ft (3km) using existing or new copper UTP wire. Innovative transmission techniques result in fiber-like transmission quality and performance over unprecedented distances.

Automatic fault protection and power monitoring ensure reliable delivery of essential power and data/video to and from remote locations.

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

Long-Distance PoE Ports

Eight IEEE 802.3af compliant Ethernet PoE ports

75Mbps Symmetrical

Superior signal/noise isolation enables fiber-like speed and performance over copper wire. Automatic rate adaptation from 0ft to 10,000ft (3,000m)

Power Protected

Dual GFI circuits with overcurrent and short detection protect the maintenance personnel and ensure reliable, long term power delivery

PowerBroadband Features:

High Availability
Standards based
Flexibility

Maximize network uptime and centralize power for all remote devices. Connect to standard IEEE 802.3af Ethernet PD; class 0, 1, 2, or 3. Removes the 300' distance limitation of Ethernet – for both PoE power and data.

Management

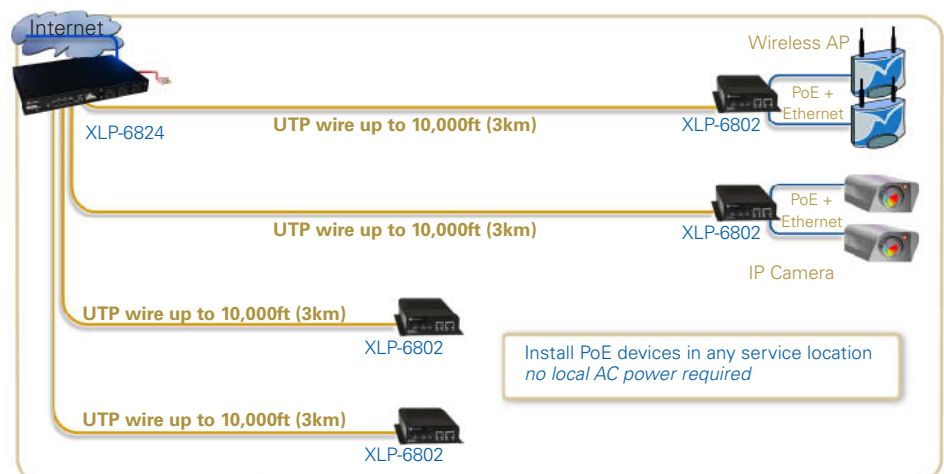
Command the power budget and requirements. Power management includes per-port power priority and usage.

Simplicity

Easily add/move/change to any location over existing or newly pulled wires. Configure and monitor using the intuitive web-UI management.

Savings

Reduce engineering time and eliminate requirements for new power sources for remote Ethernet devices



DATA SHEET

XLP-6800
Long-Distance Power and Ethernet over Copper

XLP-6800 Line Rate (Mbps) *

Distance	2-pairs
500ft (150m)	75/75
1kft (300m)	70/70
2kft (600m)	60/60
3kft (900m)	40/40
4kft (1.2km)	25/25
5kft (1.5km)	20/20
6kft (1.8km)	10/10
7kft (2.1km)	10/10
8kft (2.4km)	5/5
9kft (2.7km)	5/5
10kft (3km)	5/5

XLP-6812 Power Reach (watts)**

Distance	2-pairs	4-pairs
500ft (150m)	30.8	30.8
1kft (300m)	30.8	30.8
2kft (600m)	22.0	30.8
3kft (900m)	13	30.8
4kft (1.2km)	8	22
5kft (1.5km)	6	17
6kft (1.8km)	4	13
7kft (2.1km)	3	10.5
8kft (2.4km)	2	8.5
9kft (2.7km)	1	7
10kft (3km)	0	6

XLP-6824 Power Reach (watts)**

Distance	2-pairs	4-pairs
500ft (150m)	30.8	30.8
1kft (300m)	30.8	30.8
2kft (600m)	30.8	30.8
3kft (900m)	26	30.8
4kft (1.2km)	23	30.8
5kft (1.5km)	20	30
6kft (1.8km)	18	27
7kft (2.1km)	15	26
8kft (2.4km)	13	25
9kft (2.7km)	11	23
10kft (3km)	9	22

* **Line Rate:** XLP is rate adaptive at all wire lengths to maintain the maximum sustainable rate with a high link reliability margin.

** **Power Reach:** Available power is limited by the 802.3af PoE specification to 15.4watts per PoE port. Each XLP-6802 has 2 PoE ports.

The charts refer to the power available for PoE devices. The power required for the XLP-6802 is reserved.

Power can be budgeted to deliver more power to fewer XLP-6802s. Different wire topologies can increase the available power at longer distances. Consult your Motorola representative for more information.

XLP-6800 PowerBroadband System

The XLP Master and XLP Client provide extended-length power and Ethernet connections over 2 or 4 pairs of UTP copper wire: Cat-2, 3, 5 or greater. The XLP-6812 Master provides 2 high-speed UTP ports and 4 remote PoE ports; the XLP-6824 doubles the number of UTP/PoE ports and provides greater available power over longer distances.

EthernetXD

Programmable QAM modulation
Optimized Symmetrical data rates

Interfaces

6824/6812 Master
4 x RJ45, 10/100Mbps auto-sensing ports
2/4 x keyed UTP Connectors
1 x dB9, female console port

6802 Client
2 x RJ45, 10/100 auto-sensing with PoE
1 x keyed UTP Connector

100 – 240VAC, 50/60Hz; 300 Watts max
30.8Watts per 6802 client allocated to PoE

Power Management

Per-Port power priority
Port on/off
Automatic short/fault protection, GFI
Power usage statistics, Power device class

System Management

Console, Telnet, Web UI
ACLs, Management PVID
SNMPv2c standard and enterprise MIB
Multi-level Password protected Syslog server
FTP software updates
Config script support

Physical

6824/6812 Master: Rack or wall mount
(14" x 9" x 1.75") / (35.5cm x 22.8cm x 4.4cm)
6802 Client: Wall Mount, DIN mount
(4" x 6.5" x 1.5") / (10cm x 16.5cm x 3.8cm)

Environment

6824/6812 Operating Temperature: 0c to +50c
6802 Operating Temperature: -20c to +70c
Humidity: 5% to 95%

Compliance

EN60950-1, UL60950-1, CE, FCC Part 15A

Protocols

802.3, 802.3af PoE
TCP/IP protocol suite

QoS

2 transmission queues
Packet classifier: 802.1P, IPTOS, Physical port

VLAN

128 802.1Q tagged VIDs:
2 – 4094, Port Isolation

Ordering Information

Part Number	Model	RoHS	Description
43102	XLP-6812	yes	XLP Master. 4 Ethernet ports, 2 UTP ports. Requires 1 or 2 XLP-6802 Client
43114	XLP-6824	yes	XLP Master. 4 Ethernet ports, 4 UTP ports. Requires 1 to 4 XLP-6802 Client
43002	XLP-6802	yes	XLP Client. Two PoE Ethernet ports. 1 UTP port. Supports PoE Class 0/1/2/3 devices. Requires XLP-6824/6812 Master
42002	XLP-6802	no	XLP Client. Two PoE Ethernet ports. 1 UTP port. Supports PoE Class 0/1/2/3 devices. Requires XLP-6824/6812 Master



XLP-6824/XLP-6812, Master



XLP-6802, Client



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