



# XLT-400

## Long-Reach Ethernet Switch

Extend high performance Ethernet over ordinary copper interconnect wire. Ideal for Intelligent Transportation Systems and campus network extension.

### Flexible Topologies

High performance using a minimum number of copper pairs. XLT-400 allows a flexible, adaptable network topology: Point-to-Point, Point-to-MultiPoint, Daisy-Chain, or Multi-Node Tree.

### 75Mbps Symmetrical

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

### Fiber-Like Network

Eliminate the need to pull new fiber. XLT-400 FastCopper supports multiple IP-based applications with high speed and low Bit Error Rate

The XLT-400 family of FastCopper switches provides up to 75Mbps symmetrical line rates over two ordinary copper wire pairs. Programmable band-plans and an advanced link algorithm tailor the link reliability and performance to challenging wire environments. Proactive performance monitoring and multipoint networking ensure the highest levels of reliability.

A full-featured and user friendly management system easily integrates the XLT-400 series into an existing Ethernet-based, managed topology. With powerful features and flexible installation; XLT is the key network component for Intelligent Transportation Systems (ITS), power stations, rail yards and stations, warehouse facilities, and extended industrial campus networks.

### Management

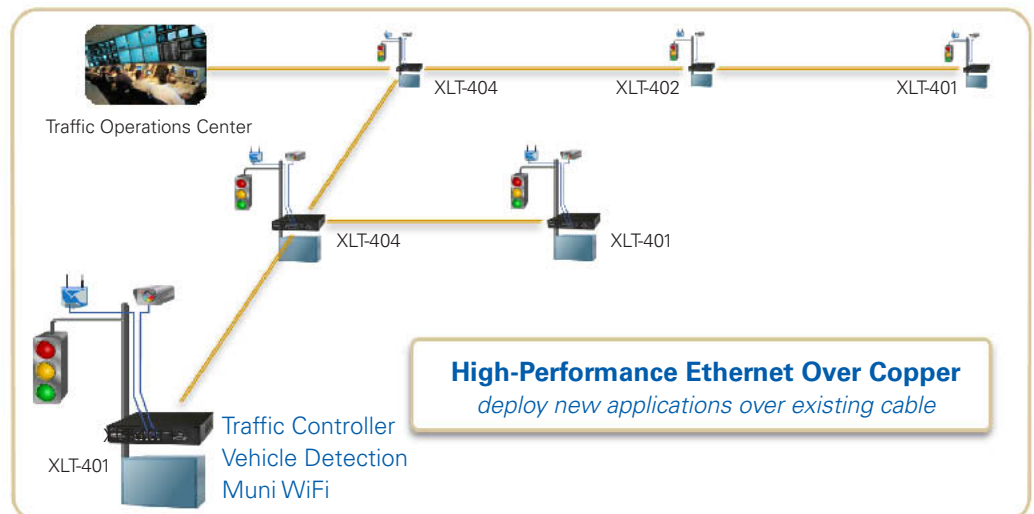
Sophisticated link management tools include digitally programmable band-plans, embedded spectrum analyzer, and an advanced link algorithm. Monitor critical data links and manage each link for maximum availability.

### Intelligence

802.1d Spanning Tree, 802.1Q tagged VLANs and embedded QoS support multiple critical services with link redundancy.

### Simplicity

Easily add/move/change to any location over existing or newly pulled telephone-grade or data-grade wires.



## DATA SHEET

XLT-400  
FastCopper Broadband Switch

# XLT-400 series Long-Reach Broadband Switch

The XLT-400 series provide high performance, reliable Ethernet connections over two UTP wire pairs, at distances up to 10,000ft (3,000m). Each XLT-400 series switch has four (4) 10/100Base-T local Ethernet ports and one, two, or four (1/2/4) long-reach UTP ports. Two telephone-grade or better UTP wire pairs are required per inter-XLT link.

### XLT-400 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

\* **Line Rate:** XLT FastCopper Switches are rate adaptive at all wire lengths to maintain the maximum sustainable rate with a high link reliability margin.

### EthernetXD

Programmable QAM modulation  
Optimized symmetrical data rates

### Interfaces

4 x RJ45, 10/100Mbps auto-sensing  
1|2|4 x keyed UTP connectors  
1 x dB9, female console port

### Power

100 – 240VAC, 50/60Hz; 50 Watts max

### Management

Console, telnet, webUI  
ACLs, management PVID  
Spanning Tree, single bridge  
802.1Q Tagged VLANs  
SNMPv2c standard and enterprise MIB  
Multi-level password protected Syslog server  
FTP software updates  
Config script support

### Physical

Wall mount or DIN adapter mount with optional bracket  
(9" x 9" x 1.75") / (22.8cm x 22.8cm x 4.4cm)

### Environment

-20c to 70c  
Humidity: 5% to 95%

### Compliance

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

### Protocols

IEEE 802.1d, 802.1Q, 802.3  
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

### Flexible Topologies

#### Point-to-Point



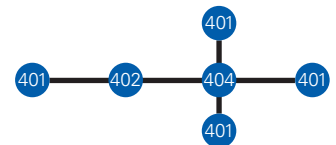
#### Point-to-MultiPoint



#### Multi-Node Daisy-Chain



#### Multi-Node Tree



XLT-400 series FastCopper Broadband Switch

### Ordering Information

Part Number	Model	RoHS*	Description
42211	XLT-401	no	4 10/100Mb ports, 1 UTP port for connection to other XLT-400 units
42212	XLT-402	no	4 10/100Mb ports, 2 UTP port for connection to other XLT-400 units
42214	XLT-404	no	4 10/100Mb ports, 4 UTP port for connection to other XLT-400 units

\* all XLT-400 models will be RoHS compliant July 1, 2007



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