

# *XL-1010M*

## *Managed SHDSL – Ethernet Bridge*



### **Description**

Designed to meet the requirements of enterprise and industrial applications, Tut's XL1010M provides transparent bridging of 10/100 Ethernet LANs, allowing the network to extend up to 27,000 feet (8.2 km) over twisted pair wires. The XL1010M is quickly and easily installed on existing copper wire networks, eliminating the time and cost of installing fiber.

Tut's XL1010M offers:

- Superior performance, based on standard SHDSL line technology
- Wide range of applications
- Full featured local and remote management

### **Superior Performance**

Using SHDSL line encoding and Tut's FastCopper technology, the XL1010M outperforms competitive products in distance and data rates. Offering fixed data rates and an automatic rate adaptive feature, symmetrical speeds up to 4.6Mbps can be achieved on a single pair of wire to distances beyond 10,000 feet (3 km). For speeds of up to 9.2Mbps, two wire pairs can be bonded together in the XL1010M. For installations where the wire networks extend beyond 10,000 feet (3 km), the XL1010M can be configured for incremental speeds from 256Kbps to 4.6Mbps per twisted wire pair or select the automatic rate adaptive feature and the XL1010M units will achieve the maximum data rate possible. With the two pair bonding feature a 512Kbps connection can be achieved at distances up to 27,000 feet (8.2 km).

### **Applications**

The XL1010M supports standard Ethernet protocols to enable a wide range of applications. Any Ethernet-ready device (hubs, switches, routers, PCs, printers, cameras, etc.) or LAN can be directly attached to the XL1010M without the delay or expense of installing fiber.

Application examples:

- Building to building LAN extension
- Industrial and manufacturing factory automation
- Security access control systems
- Video surveillance systems
- Transportation – Intelligent traffic signalization and surveillance systems

## Management

The XL1010M can be configured and managed locally by a RS232 serial connector on the front of the unit or remotely using telnet or SNMP. For local management, connect a PC to the XL1010M unit with a standard RS232 serial cable then use any terminal emulation software to manage the unit through the command line interface (CLI). Remote management can be done by telnet, providing access to the CLI, or by any SNMP utility. For SNMP management, the XL1010M provides support for enterprise or standard Management Interface Base (MIB).

## Specifications

### Interface

- SHDSL lines: RJ48
- LAN: RJ45
- RS232 Serial Port: DB9 Female

### Data Rate

- SHDSL: Up to 9.2Mbps (2-pair)
- LAN: 10/100 BaseT

### Distance

- Up to 27,000 ft (8.2 km)

### Line Technology

- SHDSL – ITU-T 991.2
- TCPAM – 16 level line code

### Compliance

- FCC Part 15 Class A
- CE mark
- UL1950

### Management

- Craft (RS232) port CLI
- Telnet CLI
- SNMP
  - V1.0 IETF RFC-1157
  - MIB RFC-1155
  - MIB RFC2578
  - MIB RFC-1212

### LAN Protocols

- Transparent Ethernet Bridge (802.1d)
- 802.1q (transmits tagged packets)
- IEEE 802.3 10BaseT
- 15,000 fps forwarding rate
- Automatic learning and aging bridge
- 10,000 MAC address table
- 256 frame buffer

### Power

- 100/240VAC, 50/60Hz

### Environmental

- Operating Temperature: 0c to 60c
- Storage Temperature: -20c to 70c
- Relative Humidity: 5 to 95% nc

### Physical

- LED status indicators
- 10.2” x 5.9” x 1.7”
- (261mm x 151mm x 44mm)
- 5.5lbs (2.5kgs)

### Warranty

- 1 Year

*Rear view of XL-1010M*



## Ordering Information

Product Name	Part Number
XL-1010M (must be used in pairs)	51011