

SECURE SWITCHING SOLUTION

Thinklogical's TLX Matrix Switches are high performance, modular, non-blocking switches for complete, end-to-end switching over multi-mode or single mode fiber-optic cable.

TLX features real-time switching of DisplayPort and HDMI video, audio and peripheral signals. TLX Matrix Switches offer scalability, flexibility, security and resiliency for any size audio-visual application.

Information Assurance Certifications

Thinklogical's TLX line of switches has achieved IA certification to The Common Criteria EAL4, TEMPEST SDIP 27 Level B, NATO NIAPC Evaluation Scheme: GREEN status, and the U.S. DoD DISA JITC UCR APL 2013, distinguishing Thinklogical as a leader in mid-to-large scale fiber optic KVM and video matrix switches globally.

Thinklogical has met stringent information assurance directives for use in secure defense, intelligence, and infrastructure facilities worldwide. The TLX architecture enables the switching and distribution of multiple classification information through a single chassis, while maintaining network isolation. The innovative design reduces the need to airgap systems to meet security requirements.



TLX MATRIX SWITCHES

HIGH PERFORMANCE WITH SEAMLESS INTEGRATION

TLX Matrix Switches support uncompressed 10 Gbps bandwidth per port, preserving signal integrity to provide high resolution video with no artifacts, added latency, or lost frames. Thinklogical's patented reclocking technology ensures that every video and data stream is delivered in perfect synchronization.

TLX Switches are protocol agnostic, supporting all common video, audio, and peripheral signal interfaces and formats, ensuring seamless integration into any infrastructure. With TLX, users can consolidate signal switching requirements into a single chassis for enhanced productivity and reduced equipment maintenance and operational costs.

Switching systems may be configured with multi-mode or single mode fiber optics for increased flexibility in hybrid environments. Designed with completely non-blocking architectures, Thinklogical Matrix Switches offer the ability to configure each port on the switch as an input or an output and switch between all ports, maximizing system efficiency.

EXCEPTIONAL RELIABILITY, REDUNDANCY AND RESILIENCY

TLX Switches are designed to maximize system uptime for mission-critical applications. In addition to a mean time between failure (MTBF) of over 100,000 hours, the modular architecture of TLX Switches allow users to hot swap all critical system components. Power supplies, fan trays, control cards, input/output cards and pluggable optics are hot-swappable, to minimize system downtime in the unlikely event a component should fail.

Scalable from 12 to 1280 ports, TLX Matrix Switches are ideal for environments ranging from small conference rooms to large, complex command and control centers.

TLX80 MATRIX SWITCH



A BELDEN BRAND

The TLX80 is a high performance, non-blocking matrix switch for complete, end-to-end routing of video, audio, and peripheral signals. The TLX80 Matrix may be configured as a unidirectional 80 x 80 or a bidirectional 40 x 40 switch. All TLX Switches support uncompressed 10 Gbps bandwidth per port for low-latency signal **TLX80 SWITCH FRONT PANEL**

TLX80 SWITCH BACK PANEL





PRODUCT FEATURES

- Configurable up to 80 x 80 switching
- Modular data cards

management.

- 10 Gbps bandwidth per port
- · Reclocking technology maintains signal integrity
- · Protocol agnostic
- Supports multi-mode & single mode fiber
- · Completely non-blocking architecture
- Switch video and data up to 80 km
- MTBF over 100.000 hours
- · Hot-swappable control cards, data input/output cards, power supplies, fan travs, optical modules
- Optional redundant control cards with automatic failover
- · Redundant, current-sharing power supplies
- Compatible with System Management Portfolio (SMP) for complete switch control and management
- · SNMP control protocol

ENVIRONMENTAL

SUPPLY VOLTAGE

MOUNTING BRACKETS

RACK SIZE (WIDTH)

HEIGHT x DEPTH

COMPLIANCE

WARRANTY

- Integrated web-based Administrative Interface (ADM)
- Certifications to support secure installations

ORDERING INFORMATION

PART NUMBER **DESCRIPTION**

MATRIX SWITCH CHASSIS

TLX-MSC-000080 TLX80 Matrix Switch

> Chassis configurable up to 80 Multi-Mode or Single Mode Fiber Ports, Redundant Modular Power Supplies

DATA INPUT/OUTPUT CARDS

TLX-MSD-M00005 TLX80 5 Port Multi-Mode

Data Input/Output Card

TLX-MSD-S00005 TLX80 5 Port Single

Mode (10 km) Data Input/Output Card

SPARE MODULES

TLX80 Control Card TLX-MSM-C00080

TLX-MSM-F00080 TLX80 Fan Tray

TLX80 Power Supply TLX-MSM-P00080

PRODUCT SPECIFICATIONS

OPTICAL DISTANCE Multi-Mode: 400 m · 33 m (OM1); 82 m (OM2); 300 m (OM3); 400 m (OM4) · Single Mode: 80 km (OS2, 9/125)

OPTICAL DATA RATE • 50 Mbps to 10 Gbps Per Port; Switching Capacity: 800 Gbps

• Operating Temperature: 0 °C - 50 °C, Humidity: 5-95% RH, non-condensing

· Approvals for United States of America, Canada, and European Union

• One Year From Date of Shipment. Extended Warranties Available.

· 19" Rack Mounting Brackets Included

POWER CONSUMPTION 480 W, 1638 BTU/hr

• Universal AC Power Supply, 100-240 VAC, 47-63 Hz

WEIGHT • 35.5 lbs (16.1 kg) Fully Populated DIMENSIONS

TOLERANCE ± 0.039" (1.00 MM)

• EIA 19" (482.90 mm) 6 RU 10.47" (265.94 mm) x 16.26" (413.00 mm)

SOFTWARE UPDATES · Mini USB Connector (1)

RS-232 SERIAL PORTS • DB9 Female Connectors (2)

1GbE NETWORK · RJ45 Connector (1)

ALARM Closed contact alarm, 10-position terminal block

CABLES INCLUDED • (2) AC Power Cable, (1) CAT5, 4.5 m (CBL000001-015FR), (1) USB 2.0 Type-A to Mini-B, 2 m (CBL000105-002MR)