

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.

TLX24 MATRIX SWITCH



The **TLX24** is a compact, high performance, non-blocking matrix switch for complete, end-to-end routing of video, audio and peripheral signals. The 1RU Matrix may be configured as a unidirectional 24 x 24 or a bidirectional 12 x 12 switch. The TLX24 incorporates a push button interface, for simplified access and control. All TLX Switches support uncompressed 10 Gbps bandwidth per port for low-latency signal management.

TLX24 SWITCH • FRONT PANEL



TLX24 SWITCH • BACK PANEL



PRODUCT FEATURES

| Configurable up to 24 x 24 switching | | |
|----------------------------------------------------------------------------------------------|--|--|
| 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 | | |
| Compatible with System Management Portfolio (SMP) for complete switch control and management | | |
| SNMP control protocol | | |
| Integrated web-based Administrative Interface (ADM) | | |
| Certifications to support secure installations | | |
| Optional push button front panel control interface | | |

ORDERING INFORMATION

| PART NUMBER | DESCRIPTION | |
|-----------------------|--------------------------------------------------------------------------------------------------------|--|
| MATRIX SWITCH CHASSIS | | |
| TLX-MSC-M00024 | TLX24 Matrix Switch Chassis configured with 24 Multi-Mode Fiber Ports, Single Power Supply | |
| TLX-MSC-S00024 | TLX24 Matrix Switch Chassis with 24 Single Mode (10 km) Fiber Ports, Single Power Supply | |
| SPARE MODULES | | |
| TLX-MSM-P00024 | TLX12 & TLX24 Power Supply | |

PRODUCT SPECIFICATIONS

| Multi-Mode: 400 m · 33 m (OM1); 82 m (OM2); 300 m (OM3); 400 m (OM4) · Single Mode: 80 km (OS2, 9/125) |
|----------------------------------------------------------------------------------------------------------------------------|
| 50 Mbps to 10 Gbps Per Port; Switching Capacity: 240 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 |
| • 75 W, 256 BTU/hr |
| Universal AC Power Supply, 100-240 VAC, 47-63 Hz |
| • 12.0 lbs (5.4 kg) Fully Populated |
| TOLERANCE ± 0.039" (1.00 MM) |
| EIA 19" (482.90 mm) 1 RU 1.72" (43.69 mm) x 16.56" (420.50 mm) |
| Console/LAN |
| Mini USB Connector (1) |
| DB9 Female Connectors (1) |
| RJ45 Connector (1) |
| • (1) AC Power Cable, (1) CAT5, 4.5 m (CBL000001-015FR), (1) USB 2.0 Type-A to Mini-B, 2 m (CBL000105-002MR) |
| |