

### High-Speed Optical Switching Between Ports

The OptiLinx™ OLX-1000 is a versatile, multi-purpose, non-blocking transparent optical switch that provides high-speed switching between ports with minimal effect on overall network latency. The OLX series is capable of switching digital signals up to 3.2 Gbps with any of its 16 ports, all in a compact 1RU chassis.

### System Design

The OptiLinx™ OLX-1000 is designed to accept up to two modular port cards with up to eight Small Form-Factor Pluggable (SFP) transceiver modules per port card. Each SFP transceiver module provides the physical ports for one input-output pair. Different types of SFP transceivers support a variety of network configurations:

- Up to 3.2 Gbps per port
- 865, 1310 and 1550 Gbps optical media (contact Opticomm for CWDM & DWDM wavelengths)
- Links up to 80 km

The OptiLinx™ OLX-1000 saves space with an internal power supply. The OptiLinx™ OLX-1000's controlling software and non-volatile configuration data resides on the module.

### Features

- Remote switching and multicasting using a Command Line Interface
- Up to 16 ports in a space-saving 1RU package
- Full Duplex switching capacity up to 51 Gbps
- Hot-pluggable SFP transceivers on all port cards
- Port cards, power supplies and fans are hot-swappable for maximum flexibility
- Provides point-to-point, multiple loops, and multicast topologies simultaneously



### Remote Configuration and Easy Testing

OLX-1000 configuration commands are sent via a 10/100 Ethernet connection using simple intuitive command sets. With regard to network testing, some of the most significant capabilities are:

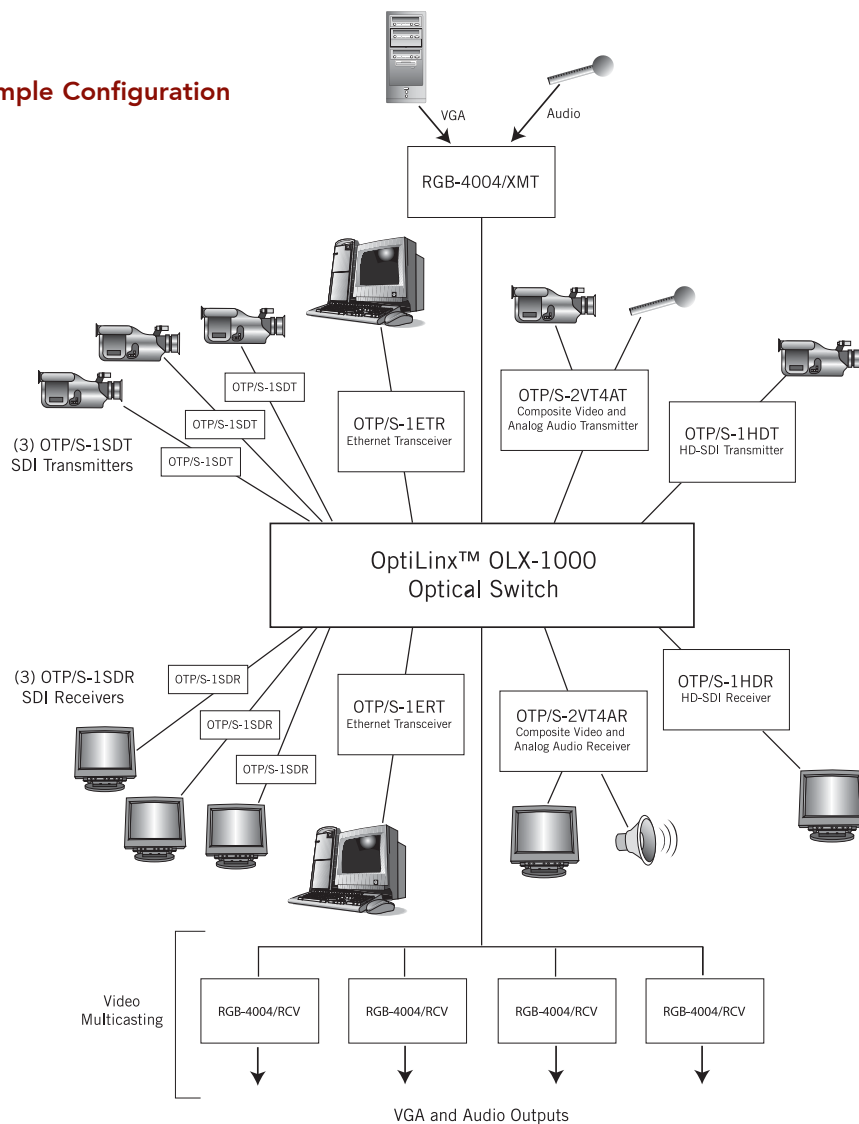
- **Automatic and Remote Reconfiguration and Fault Emulation**  
Quickly establish links, emulate optical power breaks with and without path failures, make topology changes, and re-route point-to-point, loop or multicast connections.
- **Dynamic Device Testing**  
Through out-of-band control the switch can simulate faults; also, the capability exists to identify improperly operating devices.
- **Increased Resource Sharing Capabilities**  
Switched connectivity between local or remote facilities and between devices without physically moving equipment.
- **Cable and Hardware Diagnostics**  
Quickly isolate interconnect problems; investigate whether the network can provide reliable data transfer over specified distances without touching cables; and test hardware configurations such as hubs.

# Optical Switching, Routing and Redundancy

## Hardware Specifications

Dimensions	6.3" x 9.2" (SFPB blade, in inches)
Weight	0.85 lbs. (without SFP modules)
Storage temperature	-40° C to +85° C
Operating temperature	-10° C to +70° C
Humidity	0% to 95% (noncondensing)
Data rates	Up to 3.2 Gbps per port (port card dependent)
Total bandwidth	51 Gbps

## Sample Configuration



Optiva™ Configurable  
Communication Platform

Network Management

SDI & HD-SDI

Composite Video,  
Audio & Data

RGB/VGA/DVI

Audio/FSK/Intercom

Data (Ethernet/Serial/USB)

CATV/RF & L-Band

Optical Switching, Routing  
& Redundancy

Passive Multiplexing  
Solutions

Enclosures, Racks  
& Frames

Power Supplies  
& Accessories

**1**  
YEAR  
WARRANTY

**ISO**  
9001:2000  
CERTIFIED

**CE**

**FCC** PART 15  
COMPLIANT

MADE IN THE USA