High-Speed Optical Switching Between Ports

The OptiLinx™ OLX-3000 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 4.25 Gb/s with any of its ports. Both a 4RU 144 - port version and 8RU 288-port version are available. For smaller applications, see the 16-port OLX-1000 series.

System Design

The OptiLinx™ OLX-3000 is designed to accept up to three modular port cards with up to forty-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:

- 2.5, 2.125, 1.25 and 1.0625 Gb/s and 4.25 Gb/s link rates available
- 865, 1310 and 1550 Gb/s optical media (contact Opticomm for CWDM & DWDM wavelengths)
- Links up to 80 km

The OptiLinx™ OLX-3000 comes equipped with hot-swappable power supplies, fans and port cards to allow users to quickly replace parts without affecting system performance. The OptiLinx™ OLX-3000's controlling software and non-volatile configuration data resides on the module.

Features
- Remote monitoring and switching using Opticomm's LinxView™ software
- Up to 288-port versions available
- Full Duplex switching capacity up to 612 Gb/s
- Hot-pluggable SFP transceivers on all port cards
- Port cards, power supplies and fans are hot-swappable for maximum flexibility
- Opticomm's LinxView™ software allows the user to build configurations by dragging and dropping ports
- Provides point-to-point, multiple loops, and multicast topologies simultaneously

Remote Configuration and Easy Testing

OLX-3000 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:
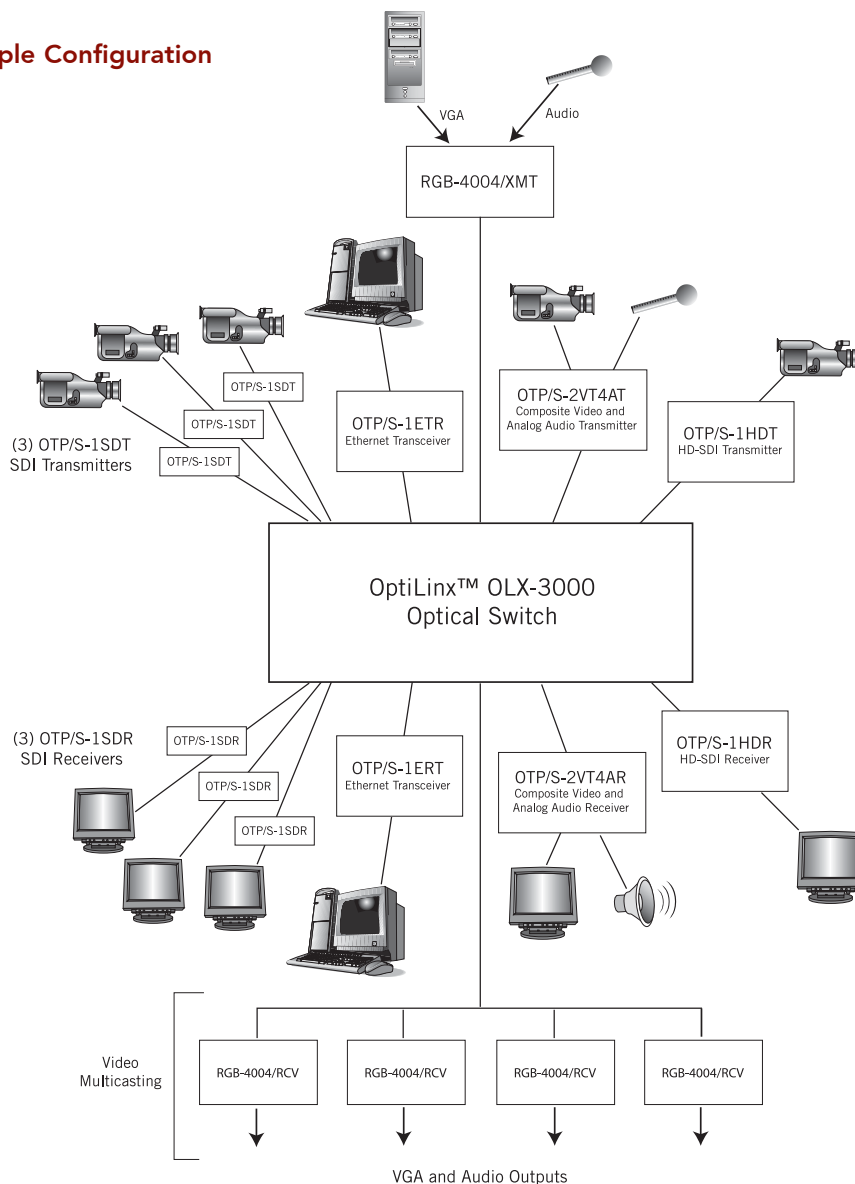
- **Automatic and Remote Reconfiguration and Fault Emulation**
  Quickly establish links, emulate optical power breaks with and without path failures, make topology changes, and re-route point-to-point, loop or multicast connections.

- **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 -- up to 50 km -- facilities and between devices allows testing 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.

Hardware Specifications

Dimensions	With handles and mounting ears:
	19.05″ W x 7.0″ H x 17.72″ L (484 mm by 178 mm by 450 mm)
	Rack Mount:
	17.13″ W x 7.0″ H x 15.75″ L (435 mm by 178 mm by 400 mm)
Weight	43 lbs. (19.5 kg)
Storage temperature	-40° C to +85° C
Operating temperature	-10° C to +60° C
Humidity	10% to 90% (non-condensing)
Data rates	Up to 4.25 Gbps per port (port card dependent)

Sample Configuration

VGA   Audio

RGB-4004/XMT

(3) OTP/S-1SDT
SDI Transmitters

OTP/S-1SDT
OTP/S-1SDT
OTP/S-1SDT

OTP/S-1ETR
Ethernet Transceiver

OTP/S-2VT4AT
Composite Video and
Analog Audio Transmitter

OTP/S-1HDT
HD-SDI Transmitter

OptiLinx™ OLX-3000
Optical Switch

(3) OTP/S-1SDR
SDI Receivers

OTP/S-1SDR
OTP/S-1SDR
OTP/S-1SDR

OTP/S-1ERT
Ethernet Transceiver

OTP/S-2VT4AR
Composite Video and
Analog Audio Receiver

OTP/S-1HDR
HD-SDI Receiver

Video
Multicasting

RGB-4004/RCV   RGB-4004/RCV   RGB-4004/RCV   RGB-4004/RCV

VGA and Audio Outputs

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

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& Redundancy**

Passive Multiplexing
Solutions

Enclosures, Racks
& Frames

Power Supplies
& Accessories

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CE

FCC PART 15 COMPLIANT

MADE IN THE USA