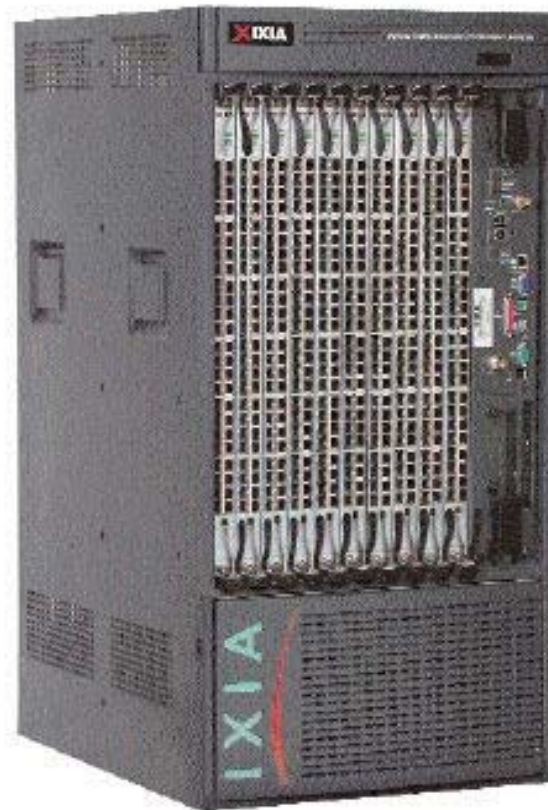


# Optixia® XL10



The high-end network switches and routers of today support up to hundreds of network ports and terabits of data throughput capacity. The Optixia® XL10 was created to efficiently meet the performance verification needs of such high density networking devices. With up to 240 10/100/1000 Mbps Ethernet or 60 - 10 Gigabit Ethernet ports capable of Layer 2-7 traffic generation and analysis at up to line rate in a single chassis, Optixia® XL10 is the highest density and performance test platform in the industry.

It takes more than raw port count however to effectively provide performance verification throughout a product life cycle. The flexibility to configure and reconfigure a test environment to fulfill multiple requirements is critical, as well as the reliability to ensure continuous system operation. The Optixia® XL10 supports network and application testing from Layers 2 through 7, enabling the product to function in development test, system and performance test, and manufacturing test environments for devices ranging from switches and routers to content switches and web servers. Redundant and hot swappable system components ensure reliable, long-term operation.



### Specifications

Load Module Slots	10
Size	Size: 17.5"w x 35.5"h x 22.5"d; (44.5cm x 90.5cm x 57.5cm)
Weight	Weight (empty): 150 lbs (68 kg) Average Shipping Weight: 160 lbs (73 kg)
Power	20 AMP at 220VAC 60/50 Hz
Temperature	Operating temperature: 32° F to 86° F (0° C to 30° C) Storage temperature: 0° F to 110° F (-20° C to 43° C)
Humidity	Operating humidity: 10% to 90%, non-condensing Storage humidity: 5% to 95%, non-condensing
Front Panel	Power: Male IEC320 receptacles

Connectors	Mouse: PS/2 6-pin DIN Keyboard: PS/2 6-pin DIN Monitor: HD-DB15 Super VGA Printer: Female DB25 parallel Ethernet: RJ45 10/100 Mbps Serial: Male DB9 USB: 4 Male Dual Type A Sync in: RJ14 Sync out: RJ14 Trigger out: BNC
Front Panel Switches	On/Off momentary rocker switch
Front Panel Indicators	System Ready, System Fault, System Temperature, CPU Power, Standby Power, Sync Master, External Sync, Ethernet Link/Data
Fan Trays	13 fans total
Management Card	Removable CPU, 80 GB hard drive, floppy drive, DVD drive, and 2.4 GHz Intel Pentium 4 processor with 2 GB of RAM

## Features

- Highest port density network test system in the industry
- Integrated PC controller running Windows 2000 for management and control of port configuration and statistics
- Hot swappable interface modules
- Intuitive management software GUI for easy access to test port configuration, transmit and receive functions
- Powerful automation facilities using the Tcl scripting language with easy integration into automated lab environments

## Benefits

- Takes up less lab real-estate with ultra-high port density
- Enables cleaner cable management, minimizing complex lab setups and cost

- Simultaneous control of up to thousands of test ports for large scale, synchronized performance testing
- Integrated software packaging and installation process for both chassis and modules reduces management overhead and simplifies upgrades, eliminating need to manage multiple software and firmware elements
- Remote management allows easy access to chassis resources via a network
- Port-level user assignment allows resources to be shared among multiple users, maximizing testing resources and providing a secure, uninterrupted test environment
- Scripted automated test packages provide for the simple execution of scaleable benchmarking metrics

## Reliability

The Optixia® XL10 is designed for today's highly competitive networking market, where performance verification is required on a continuous, uninterrupted basis. With four redundant power supplies, the Optixia® XL10 ensures uninterrupted operation. Hot-swappable Load Modules enable on-the-fly reconfiguration of the test environment.

## High Performance

The Optixia® XL10 Load Modules are built on a proven, scalable architecture that integrates a RISC CPU running Linux and a TCP/IP stack on every test port. This distributed processing environment provides the capability for stateful traffic testing of high port count, content-aware devices in addition to line-rate stateless traffic generation and analysis.

## Application Support

The Optixia® XL10 supports a wide array of Ixia test applications, including:

- Aptixia IxNetwork for control and data plane performance testing of routers and switches with complex protocol support including BGP-4, OSPF, IS-IS, MPLS, IP multicast and bridging (Spanning Tree)
- IxExplorer for granular, highly flexible data plane testing and analysis
- Aptixia IxAutomate for executing automated, pre-built data and control plane tests with sophisticated results analysis
- Aptixia IxLoad for stress testing of content-aware devices (e.g., load balancers, web servers, video servers) running protocols such as HTTP, FTP, SMTP, SIP, MPEG2 video, etc.
- IxChariot for emulation of networked applications to determine end-to-end response times
- IxAccess for performance testing broadband access devices;

- IxANVL for protocol conformance testing

## Product Ordering Information

### **OPTIXIAXL10-01**

Optixia XL10 chassis with four power supplies

### **OLM1000STXS24**

24-Port Dual-PHY (RJ45 and SFP) 10/100/1000 Mbps Ethernet Optixia XL10 full-featured Load Module (does not include transceivers)

### **OLM1000STX24**

24-Port Dual-PHY (RJ45 and SFP) 10/100/1000 Ethernet Optixia XL10 Load Module (does not include SFP transceivers); Reduced features - NO support for routing protocols, Linux SDK, and L4-7 applications

### **LSM10GXL6-02**

6-port 10GE LAN/WAN, single slot, full featured load module for Optixia XL10. Supports routing/bridging protocols, Linux SDK, and L4-7 applications. Requires 6 XFP transceivers (not included - options are either 948-0003 (XFP-850), XFP-1310, or XFP-1550)

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