

Ixia Net Tool Optimizer 7300



A New Perspective on Network Visibility

The Network Tool Optimizer (NTO) 7300 and Ixia's Visibility Architecture provide the most scalable network visibility framework in the industry. Together, they deliver the expandability and management flexibility that easily integrates into any network or data center environment, as well as the control and simplicity necessary to improve the usefulness of existing IT tools.

The NTO 7300 is a chassis that allows for centralized control of your network monitoring system in a single, simple, rack-mountable unit. It combines disparate solutions into a smaller data center footprint – saving power, rack space, and improving ROI.

The NTO 7300 is designed for large enterprises and service providers who need monitoring and network security tools to achieve end-to-end network visibility across both physical and virtual networks.

It provides network visibility to protect tool investments and scale with the network as monitoring needs grow and change as new applications and security threats emerge.



The NTO 7300 fills the IT and provider network visibility gap, enabling organizations to leverage existing tool investments to achieve total application and network visibility. This new platform helps network teams deliver on their service level agreements (SLA), meet their key performance indicators (KPI), and provide best-in-class end-user service.

It gives you a new perspective on network visibility, without the need for crash carts or change requests, to get the right data to the right tools – right now.

Key Features

- 7U chassis with 6 line cards
- Up to 384 ports of 10GE
- Up to 96 ports of 40GE
- Fully redundant supervisors, fans, and power
- Front-to-back airflow
- NEBS ready
- Multi-user permissions with concurrent access
- Automated filter compiler improves automation and speeds configuration

Performance

- 1GE, 10GE, 40GE support
- Fully non-blocking 3.8Tb backplane in all line card configurations
- Full line-rate across all ports with filtering enabled
- Port reconfiguration with no performance impact

General Specifications

High-Availability Features

- Redundant, hot-swappable power supply/fan modules
- -48V DC or Optional 120-240VAC power input
- Front to back air flow
- Redundant management ports
- Craft interface for out-of-band

Performance

- 1GE/10GE/40GE support
- Non-blocking architecture; 3.84Tbps total bandwidth
- Full line-rate across all ports with filtering enabled
- Port reconfiguration with no performance impact

Port Flexibility and Features

- Up to 384 10G ports available
- Up to 288 1GE Copper (6x48 port SFP cards)
- Up to 288 1GE (6x48 Port SFP cards)
- Up to 288 10GE (6x48 Port SFP+ cards)
- Up to 96 40GE (6x16 port QSFP cards)
- Up to 384 10GE (6x16 port QSFP cards + Breakout Cables)
- Ingress/egress port programmability
- Software port licensing
- Port tagging
- Monitoring tool port load balancing (up to 32 ports)
- Time stamping*
- Burst protection*

Management

- SNMP v1, v2, v3 support
- Local, RADIUS, and TACACS+ support (members and groups)
- Granular access control
- Event monitoring & logging
- Syslog
- IT automation control
- Dual IP-based management ports (RJ45 – 10/100/1000)

Filtering

- Centralized filter templates
- Overlapping filter engine
- Filter parameters (Layer 2-4)
- MAC source/destination address
- VLAN and Ether types
- IP protocol and DSCP/TOS Source/destination IP (IPv4/6)
- UDP, TCP ports
- Packet de-duplication/trimming*
- Protocol Stripping (GTP, MPLS, VLAN Vntag)*

Physical Specifications

Size and Weight

- 7U high rack mountable enclosure
- Dimensions: 12.25"Hx19"Wx28"D (inches)
- Weight: 200.0 lbs (91 kg)

Power

AC Power (Optional 1U Shelf)

- Input AC Voltage: 90-240 VAC RMS auto-switching removable modules up to four per shelf and up to two shelves.
- Frequency: 50-60Hz
- Nominal power requirement: 6A @ 110 VAC, 600W each x 4
- Maximum power requirement: 11A @ 110 VAC, 1200W
- Heat/power dissipation for system with all 288 ports on the front panel at 100% traffic load: nominally 2500W/9000 BTU/hour

DC Power (Standard)

- Operating input voltage: -40 to -60 VDC
- Nominal current: 40A @ -56 VDC, 2200W
- Maximum operating input current: 100A @ 40 VDC, 4000W
- Heat/power dissipation for system with all 288 ports on the front panel at 100% traffic load: nominally 2200W/9000 BTU/hour – maximum 4000W/17000BTU/hour

Environment Operating Specifications

Temperature

- Operating: 5°C to 40°C
- Short-term: -5°C to 55°C (not to exceed 96 consecutive hours)
- Short-term with fan failure: -5°C to 40°C (not to exceed 96 hours)

Humidity

- Operating: 5% to 85%, (non-condensing)
- Short-term: 5% to 90% (non-condensing, not to exceed 96 hours)

* Requires optional Advanced Features Module

Regulatory/Safety

North American Safety

- UL 60950-1, 2nd Edition
- CSA C22.2 No. 60950-1, 2nd Edition

European Safety

- EN60950-1

International Safety

- CB Scheme: IEC 60950-1:2nd Edition

RoHS Compliant

North American EMC

- FCC part 15, Class A (USA)
- ICES-003 Issue 4, Class A (Canada)

European EMC

- EN 55022:2006 +A1:2010 (Emissions)
- EN 55024:1998 +A1:2001 +A2:2010 (Immunity)
- EN 61000-3-2:2006 +A2:2009 (Harmonics)
- EN 61000-3-3:2008 (Flicker)

IEC/International EMC

- IEC/EN 61000-4-2:2009 Electrostatic Discharge Immunity
- IEC/EN 61000-4-3:2006 +A1:2008 +A2:2010 Radiated Immunity
- IEC/EN 61000-4-4:2004 +A1:2010 Transient/Burst Immunity

- EN61000-3-3 1995 w/A2 (Flicker)
- IEC/EN 61000-4-5:2006 Surge Immunity
- IEC/EN 61000-4-6:2009 Conducted Radio Frequency Immunity
- IEC/EN 61000-4-8:2010 Magnetic Field Immunity
- IEC/EN 61000-4-11:2004 Voltage Dips, Interruptions and Variations

Included Accessories

- Two DC power cords with Fused Plugs
- USB flash drive with activation license key
- Support Rail rack mount kit

10GE Line Card Specifications

- Dimensions: 1.75"x17.5"x15" (inches)
- Weight: 14.6 lbs. [6.6kg]

40GE Line Card Specifications

- Dimensions: 1.75"x17.5"x15" (inches)
- Weight: 14 lbs. [6.38kg]

Supervisor Module Specifications

- Dimensions: 11.75"x5"11.75 (inches)
- Weight: 20.6 lbs. [9.34]

Ordering Information

Part Number	Description
SYS-7300-STD	7300 Series Net Tool Optimizer - base system is the chassis assembly only. This includes the following: 1 7300 chassis (includes two Fan modules), 2 Supervisor modules, 1 DC power cable with connector, 1 integrated cable guide filter cover
SYS-7300-96X-10G	7300 Series Net Tool Optimizer - Base system includes 96 licensed ports of 10G SFP+ with AC power supply. This includes the following 1 7300 chassis (includes two Fan modules), 2 Supervisor modules, 1 DC power cable with connector, 1 integrated cable guide filter cover, 2 48-port 10G SFP+ interface modules, and 1 AC power system.
MOD-7210-IFMOD-10G	7300 Series- single (1) 48-port interface module - support up to 48 10G SFP/SFP+ ports. Requires port activation license.
MOD-7310-IFMOD-40G	7300 Series- single (1) 16-port 40G QSFP+ module - support up to 16 40G QSFP+ ports. Requires port activation license.
RPS-7300-AC	7300 Series- AC (4800W) remote power supply system for the 7300 chassis. Includes the following: 1 rack unit AC power shelf, 4 AC (1200W) power modules, 1 management cable.
RPS-7300-ACMOD	7300 Series- Single AC(1200W) power module for 7300 remote power supply system. Replacement unit for power module in (RPS-7300-AC) 7300 power supply system.
MOD-7300-FANMOD	7300 Series- Single (1) fan module unit
ACC-7300-FILTER	7300 Series- 1 year supply of air filter for the 7300 chassis
LIC-P7300-X48D	7300 Series 10G SFP+ Ports License - quantity Forty Eight (transceivers not included)
LIC-P7300-Q16D	7300 Series- 40G QSFP+ Ports License - quantity Sixty Four (transceivers not included)

For more information see <http://www.ixiacom.com/>

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