

## Net Tool Optimizer® 5236



### Enterprise-Class Network Monitoring Switch

The Net Tool Optimizer (NTO) 5236 intelligent network packet broker provides high-density performance and 10GE visibility for network monitoring tools in all parts of a fiber network. The 5236 offers up to 24 SFP/SFP+, four 10/100/1000 copper Ethernet ports, and the industry's most advanced, easy-to-use, drag-and-drop control panel.

The NTO 5236 is available in a 10GE version or a 1GE fiber optic version. The NTO 5236 includes two module slots to allow the addition of up to four additional 10GE ports using the 5200 Series expansion modules. Modules are available for standard ports or as Advanced Feature Modules (AFMs) to support hardware-based advanced packet processing.



#### Performance

- 10MB to 10GE Ethernet support
- Non-blocking architecture; 244Gbps total bandwidth
- Full line rate across all ports with filtering enabled
- Port reconfiguration with no performance impact

#### Port Flexibility

- Up to 28 ports available
- Ports 1-20: 1GE (SFP) or 10GE (SFP+)
- Ports 21-24: Up to 1GE copper
- Modular Ports 1-4: 1GE SFP or 10GE SFP+
- ZERO-loss advanced packet processing (Requires optional AFM)
- Port tagging
- Monitoring tool port load-balancing

## Key Features

### ***Management***

- SNMP v1, v2, v3 support
- TACACS+, RADIUS, and Local support (members and groups)
- Granular access control features
- Event logging
- Syslog
- IT Automation control (RESTful API)
- IP based management port (RJ45 10/100/1000)

### ***Filtering***

- Centralized filter templates
- Custom dynamic filtering
- Overlapping Filter Engine
- Filter parameters (Layer 2-4)
- MAC Source/Destination addresses
- VLAN and Ethertypes
- IP protocol and DSCP/TOS
- Source/Destination IP (IPv4/IPv6)
- UDP, TCP Ports

### ***Advanced Packet Processing (Requires Optional AFM)***

- ZERO-loss packet processing
- Use any combination of supported features without performance impact
- Supported Features:
  - De-duplication
  - Packet trimming
  - Protocol stripping (GTP, MPLS, VLAN, VNTAG)
  - Gigabit extended burst protection
  - Timestamping

## Specifications

### *Physical Specifications*

#### Size and Weight

- 1U high 19 rack mountable enclosure
- Dimensions: 17.5W x 19L x 1.75H (inches)
- Weight: 15.5lb (7 kg)

#### Power AC

- Input AC Voltage: 90-240 VAC RMS auto-switching
- Frequency: 50-60Hz
- Nominal power requirement: 1.27A @ 110 VAC, 140W
- Maximum power requirement: 3.2A @ 110 VAC, 353W
- Heat/Power Dissipation: nominally 140Watts /478 BTU/hour

#### Power DC

- Input DC Voltage: 12V DC
- Nominal power requirement: 10A @ 12 VDC, 120W
- Maximum power requirement: 25A @ 12 VDC, 300W

### *Operating Specifications*

#### Environmental

- Operating temperature: 0 to 30 C
- Operating humidity: 10 to 85%, noncondensing
- Fans: Automatic temperature-controlled DC fans (right to left airflow)

### *Regulatory/Safety*

#### North American Safety

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

#### North American EMC

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

## European EMC

- EN55022 2003 Class A (Emissions)
- EN55024 1998 w/A2 (Immunity)
- EN61000-3-2:2006 (Harmonics)
- EN61000-3-3 1995 w/A2 (Flicker)

## IEC/International EMC

- IEC/EN 61000-4-2:2001 Electrostatic Discharge Immunity
- IEC/EN 61000-4-3:2002 Radiated Immunity
- IEC/EN 61000-4-4:2001 Transient/Burst Immunity
- EN61000-3-3 1995 w/A2 (Flicker)
- IEC/EN 61000-4-5:2001 Surge Immunity
- IEC/EN 61000-4-6:2001 Conducted Radio Frequency Immunity
- IEC/EN 61000-4-11:2004 Voltage Dips, Interruptions and Variations

## RoHS Compliant

### *Included Accessories*

- AC power cord
- USB flash drive with activation license key
- Rack mount kit

## Ordering

Ordering Information	
Complete Systems	
SYS-5236-ALL	NTO 5236 base system - with all 24 10G and 4 Copper ports licensed
SYS-5236-20GAFFM	NTO 5236 System with 24 10G and 4 Copper ports licensed - with 20G of AFM
SYS-5236-40GAFFM	NTO 5236 System with 24 10G and 4 Copper ports licensed - with 40G of AFM
SYS-5236-GIG-ALL	NTO 5236 base system - with all 24 1G and 4 Copper ports licensed
1GE to 10GE Upgrade License	
LIC-P5200-X1D-UP	Upgrade 1GE SFP port to 10GE/1GE SFP+ port - quantity One (transceiver not included)