

The World's Most Advanced Network Controller Switch

Features

- Dynamic load balancing, tap, link aggregation, stream regeneration, matrix switching, and smart filtering in a single device
- Deep Packet Inspection (DPI) with pattern matching Layer 4 through Layer 7
- Three 10-Gigabit XFP ports and 34 1-Gigabit ports
- In-line and SPAN network modules
- 10 SFP monitor port interfaces
- Stack two Director Pro chassis for increased capacity
- TapFlow™ multi-layer filtering engine
- RMON statistics (packet count, utilization, etc.)
- Indigo™ management software

Benefits

- Leverages existing monitoring tool investments
- Improves network visibility and security threat management
- Zero packet loss
- Relieves oversubscribed tools by filtering
- Compatible with monitoring tools and intrusion detection and prevention systems from all major manufacturers

A New Way to Access and Monitor Data

Volumes of multi-protocol network traffic continue to skyrocket, with increased security threats, tighter regulatory compliance requirements, and upgrades to 10 Gigabit links further complicating network operations. Maintaining network security, guaranteeing quality of service, and tracking billing information accurately in this environment means monitoring every critical network link for more detailed information and different types of data. As a result, monitoring tools are oversubscribed and multiple groups with various responsibilities compete for use of the tools and access points.

Director Pro answers the need for more efficient network access by enabling a pool of tools to be deployed across a large number of network links, with remote, centralized control of exactly which traffic is directed to each tool. TapFlow™ filtering technology lets you select traffic of interest for each tool based on protocols, IP addresses, ports, VLANs, and MPLS labels. Dynamic load balancing spreads the load from 10G and aggregated 1G traffic evenly over multiple tools, while retaining the integrity of flows. The simple to use DPI provides a powerful capability to look deep inside packets, at Layer 4 through Layer 7 information, by pattern matching ASCII and

hex-based data anywhere within the packet payloads. By centralizing monitoring through Director Pro, tools can be moved instantly from one link to another without unplugging cables and physically moving devices. There is no need to wait for a maintenance window or get approvals for changing the network configuration because Director Pro is completely transparent to the network. With power to spare, and load sharing, dual hot swappable power supplies provide enhanced redundancy – and easy serviceability times two. Even if power is removed from both of the unit's power supplies, the fully passive design ensures that in-line network links remain open and network traffic keeps flowing.



LOAD BALANCING

Monitoring Made Better. Faster. Easier.

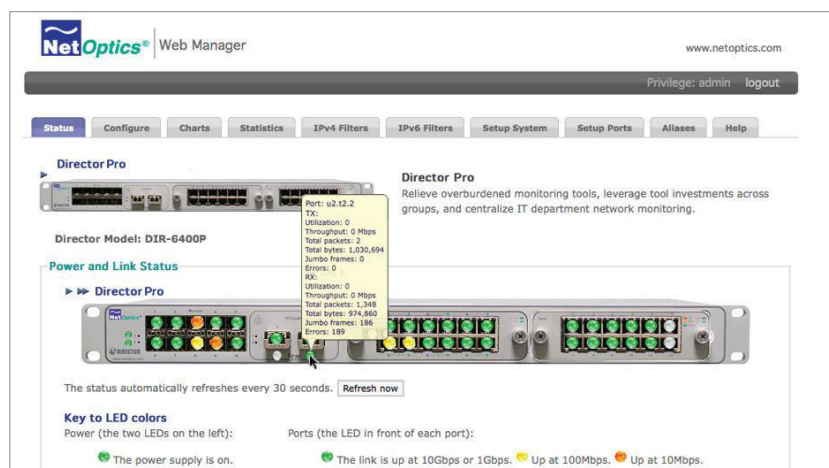
Director Pro has a rich, easy-to-use GUI management tool called Web Manager, which can be accessed from any Web browser. With Web Manager's intuitive interface, you don't need to be an expert to monitor link status, graph RMON statistics, set up filters, or configure Director Pro.

Director Pro - Network Controller Switch breakthrough technologies bring a whole new level to accessing and monitoring data. Next generation architecture offers true 24/7 high performance, failover protected Dynamic Load



DEEP PACKET INSPECTION

Balancing for mission-critical services. Also included is a full suite of Deep Packet Inspection (DPI) and Filtering for Layer 2-7 and beyond. Additionally, Director Pro carries forward the Director family's capabilities of aggregation, regeneration, switching, and Layer 2 through Layer 4 filtering, as well as offering the highest port density in the industry. Director Pro provides the access capabilities you need to leverage your monitoring tools across your entire network while streamlining the amount of data the tools need to process.



Director Pro
Relieve overburdened monitoring tools, leverage tool investments across groups, and centralize IT department network monitoring.

Director Model: DIR-6400P

Power and Link Status

Director Pro

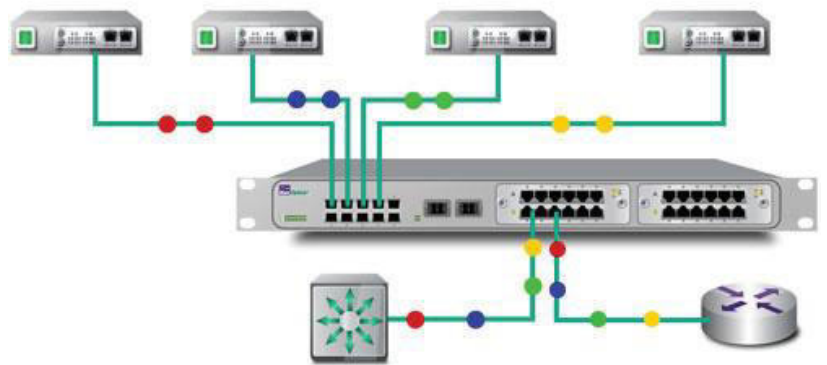
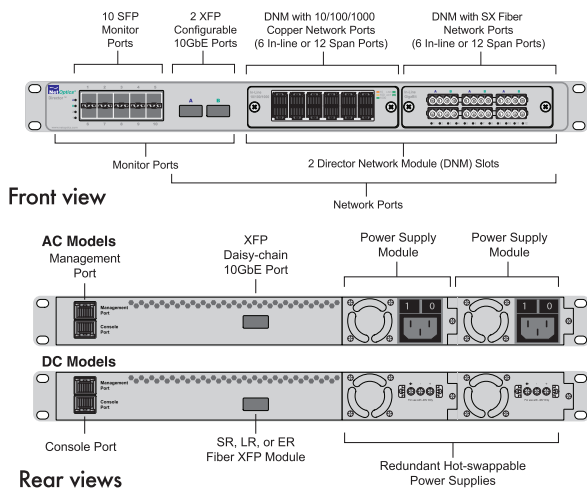
The status automatically refreshes every 30 seconds. Refresh now

Key to LED colors

Power (the two LEDs on the left):
● The power supply is on.
● The power supply is off.

Ports (the LED in front of each port):
● The link is up at 10Gbps or 1Gbps. ● Up at 100Mbps. ● Up at 10Mbps.

Web Manager



Dynamic Load Balancing

24/7 High Performance Failover Protection

Specifications, chassis

Operating

Operating Temperature: 0°C to 40°C
 Storage Temperature: -10°C to 70°C
 Relative Humidity: 10% min, 95% max, non-condensing

Mechanical

Dimensions: 1.72" high x 23.4" deep x 19" wide
 Mounting: Surface or 19" rack mount (1U)
 Weight:
 DIR-6400P 18 lbs (8.2 kg)
 DIR-3400P 16 lbs (7.3 kg)
 DNM (1.5lbs)

Connectors

Network Port Slots: (2) Director Network Module (DNM)
 Monitor Ports: (10) SFP
 Configurable 10Gigabit Ports: (2) XFP
 Stacking (uplink) 10Gigabit Ports: (1) XFP
 Management Port: (1) RJ45 10/100/1000 Copper Network
 Console (CLI) Port: (1) RJ45 RS232
 Power: (2) AC universal

Electrical Specifications

Power: 100-240VAC, 2A, 47-63Hz (Japan: 100-125VAC, ~120 VA, 50-60Hz)
 DC Input: -48VDC nominal, -36 to -72VDC, 6.0A
 DC Receptacle: Terminal peak, 12-14 gauge wire
 Maintenance: Power supplies are hot-swappable

Indicators

(All ports) Link LEDs (with speed indication on Copper ports),
 (All ports) Activity LEDs
 (2) Power LEDs

Certifications

FCC, CE, VCCI, and C-Tick certified
 Fully RoHS and WEEE compliant

Performance

Hardware throughput: 64Gbps and 34Gbps
 Dynamic load balancing: 10Gbps aggregated throughput, 1 to 32 outputs, overflow mode, failover spare, four balance modes: flow (IP address pair), flow (IP source address), flow (IP destination address), packet-by-packet round-robin
 TopFlow: More than 1,000 filter elements per chassis; filter by IP source address, IP destination address, MAC source address, MAC destination address, source port, destination port, protocol, network port or port group, VLAN, utilization threshold, Ethertype, outer MPLS label; accurate ranges
 DPI: Pattern matching in complete packet payload L4-L7; up to three patterns matched sequentially; 64 byte pattern length; ASCII, hex, bitwise don't cares; optional case sensitivity, anchored or unanchored search, independent offsets for each pattern and filter
 RMON statistics: Current utilization, peak utilization, peak time, total packets, total bytes, CRC errors, collision packets, oversize packets, undersize packets
 Alarms: Programmable utilization threshold alarm for each network and monitor port (Availability TBD)

Indigo™ Management Software

Net Optics Web Manager—compatible with all major Web browsers (Availability TBD)
 Net Optics System Manager—compatible with Windows XP, Windows 2000, and Windows 98 (Availability TBD)
 SNMPv3, SNMPv2, SNMPv1 support (Availability TBD)

Part Numbers

DIR-6400P: Director Pro, Main Chassis, 2 DNM Bays, 10 SFP Ports, 3 XFP Ports
 DIR-3400P: Director Pro, Main Chassis, 2 DNM Bays, 10 SFP Ports
 DIR-6400P-DC: Director Pro, Main Chassis, 2 DNM Bays, 10 SFP Ports, 3 XFP Ports, -48V
 DIR-3400P-DC: Director Pro, Main Chassis, 2 DNM Bays, 10 SFP Ports, -48V

Specifications, DNM

Copper Interfaces

(12) RJ45 Network Ports 10/100/1000Mbps
 (6) In-line or (12) SPAN depending on model
 22-24 AWG unshielded twisted pair cable, CAT5e or better recommended

Fiber Optic Interfaces

(12) Gigabit SX Network Ports, LC type
 (6) In-line or (12) SPAN depending on model
 Fiber Type: Corning Multimode 50 or 62.5/125µm, 850 nm
 Transceiver: GigaBit SX 850nm, VCSEL, supports 62.5/125µm
 Transceiver: GigaBit LX 1310nm or 1550nm, VCSEL, supports 8.5/125µm
 Safety: Class 1, eye-safe, laser emitter type; conforms to the applicable requirements per US 21 CFR (J) and EN 60825-1; also UL 1950 applications

Part Numbers

DNM-100: DNM, CU3, Inline
 DNM-101: DNM, CU3, Inline, Virtual Zero Delay
 DNM-110: DNM, CU3, Span
 DNM-200: DNM, Fiber, MM, Inline, 62.5µm, 850nm, 50:50
 DNM-202: DNM, Fiber, MM, Inline, 62.5µm, 850nm, 70:30
 DNM-210: DNM, Fiber, MM, Span, 62.5µm, 850nm
 DNM-220: DNM, Fiber, MM, Inline, 50µm, 850nm, 50:50
 DNM-222: DNM, Fiber, MM, Inline, 50µm, 850nm, 70:30
 DNM-230: DNM, Fiber, MM, Span, 50µm, 850nm
 DNM-300: DNM, Fiber, SM, Inline, 8.5µm, 1310nm, 50:50
 DNM-302: DNM, Fiber, SM, Inline, 8.5µm, 1310nm, 70:30
 DNM-310: DNM, Fiber, SM, Span, 8.5µm, 1310nm
 DNM-320: DNM, Fiber, SM, Inline, 8.5µm, 1550nm, 50:50
 DNM-330: DNM, Fiber, SM, Span, 8.5µm, 1550nm



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