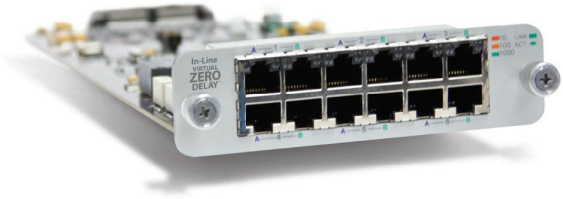
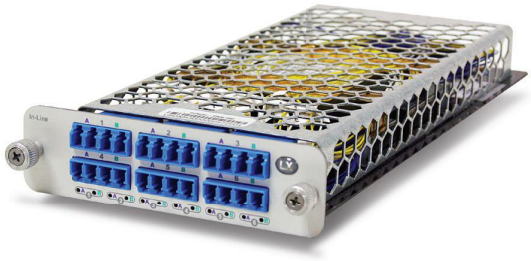
Director Network Module





Director Network Module (DNM) is a pluggable, field upgradeable Director module with 12 network ports. Depending on the DNM model, each module provides 6 in-line links or 12 Span ports, supporting Gigabit SX/LX/ZX Fiber or 10/100/1000 Copper media.

Director supports up to 2 modules. Each Director chassis has two DNM slots that may be populated with different models of DNM.

Virtual Zero Delay (VZD)

VZD is a new, patent-pending technology from Net Optics designed to improve network reliability when using copper taps.

Net Optics' new DNM-101 Module's innovative Virtual Zero Delay circuitry guarantees that Director™ and Director Pro™ in-line copper connections will never lose their links when power goes off for whatever reason—such as power failures or during planned power up and power down events. In the past, link renegotiation has been a major challenge for copper taps, costing precious seconds or minutes of link downtime when Tap power transitions. DNM-101 VZD eliminates those lengthy renegotiation cycles by preserving the link state through power transitions, as if no break existed.

Director/Director Pro

Copper DNM **Fiber DNM**

At a Glance

- Twelve 1Gbps ports
- Fiber and Copper media support
- In-line and SPAN network modules
- Virtual Zero Delay*
- Passive in-line or span access
- Link fault detect (LFD)
- Status LEDs for each port
- RMON-type statistics
- IEEE 802.3az, SyncE compliant*
- Compatible with all models of Director and Director Pro

**Applies to DNM-101 Only*

Specifications

Performance

Hardware throughput: 12Gbps

Network recovery time (DNM-101): Zero Delay at 10mbps, <50µs @ 100mbps, 40ms at 1Gbps

RMON statistics: Current utilization, peak utilization, peak time, total packets, total bytes, CRC errors, collision packets, oversize packets, undersize packets. Available via Indigo Management Software.

Alarms: Utilization threshold alarm for each network port programmable through Director CLI

Mechanical

Dimensions:1.35" high x 10.38" deep x 5.05" wide

Weight: 1.5lbs

Indicators

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

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

Certifications

Fully RoHS compliant

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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