



PASS THROUGH MODULE

M1601P

32-port 10GigE Pass Through Module II

The PhyX®-based M1601P 10GigE Pass Through Module II for PowerEdge M-Series provides high bandwidth, low latency connectivity for blade servers individually connecting them to SFP+ external Ethernet ports. Based on the very high density 10Gb/s Ethernet physical layer device, PhyX, the Pass Through Module II delivers up to sixteen 10GBASE-KX4 (XAUI) backplane ports and sixteen ports of SFP+ 10Gbp/s external Ethernet ports in one I/O module. Each server facing port has its own dedicated external port.

Sustained Network Performance

The M1601P offers dedicated connectivity at 10Gb/s between server blades and external Ethernet ports which in turn can connect to standard 10GigE or storage equipment. 10Gb/s of bandwidth is available to each server node regardless of the traffic on any other port. The M1601P Pass Through Module II is ideal for those customers that require direct 10Gb/s connection between each server blade in the enclosure and an external network device such as a switch, router or hub making use of existing switching capacity within a data center.

Ease of Use and Management

The M1601P is externally managed by the CPU module in the PowerEdge M-Series chassis. All status and maintenance information is collected over a RS232 link that runs over the backplane. The M1601P can be installed in any of fabric slots B1, B2, C1 or C2. Redundant configurations can be supported by installing two Pass Through Modules per chassis. Support for hot-swap allows removal and insertion of the M1601P while the chassis is powered on.



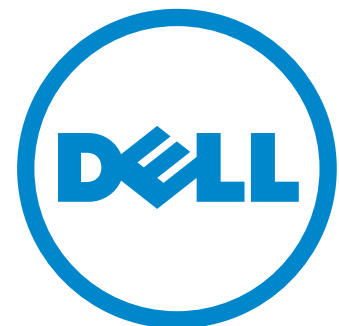
M1601P 32-port 10GigE XAUI to SFP+ Ethernet Pass Through Module for Dell PowerEdge M1000e-series Blade Enclosures

BENEFITS

- Provides direct access from each server blade to external Ethernet ports
- Offers high bandwidth connectivity at 10Gb/s for each server blade
- Offers low latency access for each server blade
- Utilizes existing switching capacity in the data center
- Reliable connectivity, low power and easy to deploy and use

KEY FEATURES

- 16 10GBASE-KX4 (XAUI) backplane ports
- 16 10Gb/s SFP+ Ethernet external ports
- Supports TwinAx, SR and LR optical cables
- Supports jumbo frames up to 9KB



Third party information brought to you courtesy of Dell.

SPECIFICATIONS**ETHERNET**

- IEEE 802.3ae 10Gb/s Ethernet support
- IEEE 802.3ap 10Gb/s Ethernet operation over electrical backplanes
- Support for jumbo frames up to 9K
- Link state reflection of external ports onto internal ports
- Indication of link protocol mismatch condition
- Support for redundant pass through modules
- Support for hot-swap

MANAGEMENT

- RS232 management port over the backplane
- Management port connects to Chassis Management Console (CMC)

HARDWARE**ETHERNET PASS THROUGH MODULE**

- 32 ports (16 internal, 16 external)
- up to 10Gb/s per port
- One-to-one connectivity from blades to external ports

CONNECTORS AND CABLING

- SFP+ connectors
- Passive copper cable
- Optical media adapter and active cable support

INDICATORS

- Per port status LEDs: Link, Activity
- System status LEDs: System status, power

DIMENSIONS (H x W x D)

- 1.14 x 9.72 x 11.22 inches

MAXIMUM POWER CONSUMPTION

- 41W
 - Power through connector: 1W per port

COMPLIANCE**SAFETY**

- UL60950 C-UL to CAN/CSA 22 2 No.60950-1
- TUV/GS to EN 60950-1, Amendment A1-A4, A11 CB-IEC60950-1, all country deviations

EMC (EMISSIONS)

- CC 47CFR Part 15 Class A
- EN 55022 Class A
- ICES-003 Class A
- VCCI Class A
- AS/NZS CISPR 22 Class A
- CISPR 22 Class A
- EN 55024 EN 300386
- CE

ENVIRONMENTAL

- EU: IEC 60068-2-64: Random Vibration
- EU: IEC 60068-2-29: Shocks, Type I / II
- EU: IEC 60068-2-32: Fall Test

OPERATING CONDITIONS

- Operating temperature: 0 to 40° C
- Humidity: 10-90% non-condensing



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