The Dell EMC Networking MX7116n Fabric Expander Module is a key component in the MX Scalable Fabric Architecture. This module transparently extends the networking capabilities of the MX9116n Fabric Switching Engine to multiple PowerEdge™ MX7000 chassis, providing high performance networking at a low TCO.

**Maximum scalability**

The MX7116n extends the capabilities of the MX9116n Fabric Switching Engine to a total of ten MX7000 chassis and 80 PowerEdge MX compute sleds.

In addition to 16 internal 25GbE ports, the MX7116n provides two QSFP28-Double Density uplink ports. Each QSFP28-DD port provides capacity for eight 25GbE connections from PowerEdge MX compute sleds for a total of 200GbE of bandwidth per QSFP28-DD cable, and 400GbE bandwidth per MX7116n.

**Performance and latency**

The non-blocking switching architecture in the MX9116n Fabric Switching Engine provides line-rate 25GbE L2 and L3 forwarding capacity to all connected servers. The MX7116n extends that capability to additional MX7000 chassis, adding less than 75ns of latency for a total of less than 600ns latency between any two compute sleds in a Scalable Fabric.

The design of the MX Scalable Fabric Architecture also allows for zero oversubscription between any two compute sleds in the fabric.

**Zero touch management**

The MX7116n does not run an operating system or have firmware that requires frequent updating to keep “in sync” with the Fabric Switching Engine. It is transparently managed by the MX7000 infrastructure and does not require user configuration.
Physical
25GbE Fabric Expander in PowerEdge MX Fabric A/B I/O sled form factor
Indicators:
- Power/Health LED
- ID LED
- Supported Optic LED
- Compute sled link/activity LEDs
Size: 1.18"h x 17.11"w x 10.94"d
Weight: 6.83lbs (3.1kg)
Max. power consumption: 21.9 Watts
Typ. power consumption: 16.0 Watts
Max. operating specifications:
- Standard Operating Temperature 10°C to 35°C (50°F to 95°F)
- Operating Relative Humidity 5% to 85%, noncondensing
Max. non-operating specifications:
- Storage temperature: -40°C to 65°C (-40°F to 149°F)
- Storage humidity: 5 to 95% (RH), noncondensing
Expanded Operating Temperature, Continuous Operation: 5°C to 40°C at 5% to 85% RH with 29°C dew point
Note: Outside the standard operating temperature, the system can operate continuously in temperatures as low as 5°C and as high as 40°C.
For temperature between 35°C to 40°C, de-rate maximum allowable temperature by 1°C per 175m above 950m (1°F per 319 ft)
Fresh Air Compliant to 45°C
Redundancy
Redundant Power and Cooling provided by Dell EMC PowerEdge MX7000 Chassis
Performance
Latency: Sub 75ns

Regulatory compliance
Safety
UL/CSA 60950-1, Second Edition
EN 60950-1, Second Edition
IEC 60950-1, Second Edition Including all National Deviations and Group Differences
EN 60825-1 Safety of Laser Products Part 1: Equipment Classification Requirements and User’s Guide
FD A Regulation 21 CFR 1040.10 and 1040.11
Emissions
Australia/New Zealand: AS/NZS CISPR 32:2015, Class A
Canada: ICES-3/NMB-3, Class A
Europe: EN 55024:2010 (CISPR 24:2010), Class A
Japan: VCCI V-3/2010.04 Class A
USA: FCC CFR 47 Part 15, Subpart B:2011, Class A
Immunity
EN 300 386 V1.6.1 EMC for Network Equipment
EN 55024:2010
EN 61000-3-2: Harmonic Current Emissions
EN 61000-3-3: Voltage Fluctuations and Flicker
EN 61000-4-2: ESD
EN 61000-4-3: Radiated Immunity
EN 61000-4-4: EFT
EN 61000-4-5: Surge
EN 61000-4-8: Low Frequency Conducted Immunity
RoHS
EN 50581:2012 All MX7116n components are EU RoHS compliant

Dell Technologies Services
Plan, deploy, manage and support your IT transformation with our top-rated services
Consulting
Dell Technologies Consulting Services provides industry professionals with a wide range of tools and the experience you need to design and execute plans to transform your business.
Deployment
Accelerate technology adoption with ProDeploy Enterprise Suite. Trust our experts to lead deployments through planning, configuration and complex integrations.
Management
Regain control of operations with flexible IT management options. Our Residency Services help you adopt and optimize new technologies and our Managed Services allow you to outsource portions of your environment to us.
Support
Increase productivity and reduce downtime with ProSupport Enterprise Suite. Expert support backed by proactive and predictive artificial intelligence tools.
Education
Dell Technologies Education Services help you develop the IT skills required to lead and execute transformational strategies. Get certified today.

Learn more at DellTechnologies.com/Services

Learn more at DellTechnologies.com/Networking