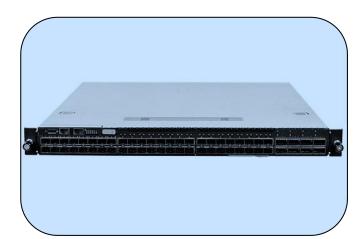


IX8

Enterprise Data Center 25 G Switch



Features

- ONIE Pre-load
- x86 CPU Board
- BMC Built-in

Description

Data center networks face changes with hardware and meeting the requirements of the software it hosts. XenOpt provides a series of Bare Metal Switches (BMS) that address these changes in the data center market. The XenOpt BMS product lines support up to 100 G speeds on its Ethernet Switches. To meet the requirements of high performance, high availability, fast scale out, low latency performance, and continuous serviceability in data center applications, the XenOpt BMS product line is the best choice.

BMC (Baseboard Management Controller) embedded on the server as the core of the Intelligent Platform Management Interface (IPMI) architecture can now be implemented in the Ethernet switch. In addition to providing health monitoring of the temperature, power status, and cooling fans, BMC also aids in the deployment and management of software and hardware peripherals.

XenOpt BMS IX8 supports 48 SFP28 and 8 QSFP28 (10/25/40/50/100 GbE speed) ports and is equipped with BMC in a compact rack unit size. By levering merchant silicon chip, IX8 is fully compliant with IEEE 802.3 standard and is a high performance high density Ethernet switch with advanced features such as smart table, dynamic load balancing, and VxLAN/RIOT support. IX8 also improves the performance for larger packet buffers and reduced latency. With ONIE (Open Network Installation Environment) pre-loaded IX8 can be used for multiple network operating system which supports ONIE installer to achieve agile installation and fast response for the changing demand.



Technical Specification

Physical Ports

- Port configuration: 48 SFP28 (10/25 GbE) and 8 QSFP28 ports (10/40 or 25/50/100 GbE)
- Management Port: Out-of-band management port (RJ-45, 10/100/1000Base-T)
- o Console Port: 1 RJ-45 console port
- o **USB:** 1 USB 2.0 port

CPU Board 1

CPU: Intel Atom® Processors
 Memory: 8 GB DDR3/ECC
 Storage: SSD: 32 GB

Performance

Switching capacity: 4 Tbps

Maximum forwarding rate: 2 Bpps

Latency: Ultra-low latencyMAC: BRCM TD3 BCM56873

BMC

o IPMI: v1.5/v2.0 compliance

Serial over LANSNMP: v1/v2/v3

SMASHHTTPS

- Health status and hardware monitoring
- Event logPEF and PET
- Chassis management
- Watchdog and system re-start

High Availability

Redundant power supply: 1+1

o Hot-swappable fan tray: N+2

Mechanical

o **Dimension (HxWxD):** 43.2x440x508 mm

Weight: 9.71 kg (NET)

Environmental Specifications

○ Operating temperature: 0~45°C

 Operating humidity: 90 % maximum relative humidity

o Operating Altitude: 0 to 2952 ft, (0-900 m)

Electrical

 Power requirement: 100~240 VAC, 50/60 Hz

Safety

o UL, cUL, CB, CCC

EMC

o CE, FCC, CCC

RoHS

 Reduction of Hazardous Substances (RoHS) 6

Supported Optics and Cables

XCE-QSQSNgg DAC cable (QSFP+), 7 – 100 m **XCE-QS4SNgg** DAC cable (QSFP+, 4xSFP+), 7 – 100 m

XCE-S8S8Ngg DAC cable (SFP28), 7 – 100 m **XCE-Q8Q8Ngg** DAC cable (QSFP28), 7 – 100 m **XCD-QS4SNgg** DAC cable (QSFP+, 4xSFP+),

1 – 5 m

XCD-QSQSNgg DAC cable (QSFP+), 1 – 5 m **XCD-Q8Q8Ngg** DAC cable (QSFP28), 1 – 5 m **XTM855-M1LY** SFP28, LC, 850 nm, MMF, 25 G, 25GBASE-SR

XQM853-MxPY QSFP+, MPO, 850 nm, MMF, 40 G, 40GBASE-SR4, 100 m, 300 m **XQS313-xxPY** QSFP+, MPO, 1310 nm, 40 G, SMF, 40GBASE-LR4, 1 km, 2 km, 10 km

XQS313-xxLY QSFP+, LC, 1310 nm, 40 G, SMF, 40GBASE-LR4, 10 km, 40 km

XQS319-10LY QSFP28, LC, 1310 nm, 100 G, SMF, 100GBASE-LR4, 10 km



Ordering information¹

| PN | Description |
|--------------------------|--|
| Switches | |
| X1IX8UZZ0000 | IX8, AC, 48 SFP28 (10/25 GbE) and 8 QSFP28 ports (10/40 or 25/50/100 GbE), front to back fan, with Rail Kit |
| X1IX8UZZ0001 | IX8, AC, 48 SFP28 (10/25 GbE) and 8 QSFP28 ports (10/40 or 25/50/100 GbE), back to front fan, with Rail Kit |
| Cables 25 G, 40 G, 100 G | |
| XCE-QSQSNgg | DAC cable, optic, QSFP+ to QSFP+, 40 Gb, length gg = $\{07 - 7 \text{ m}; 10 - 10 \text{ m}; 20 - 20 \text{ m}; 50 - 50 \text{ m}; C1 - 100 \text{ m}\}$ |
| XCE-QS4SNgg | DAC cable, optic, QSFP+ to $4xSFP+$, 40 Gb, length $gg = \{07 - 7 \text{ m}; 10 - 10 \text{ m}; 20 - 20 \text{ m}; 50 - 50 \text{ m}; C1 - 100 \text{ m}\}$ |
| XCE-S8S8Ngg | DAC cable, optic, SFP28 to SFP28, 25 Gb, length gg = $\{07 - 7 \text{ m}; 10 - 10 \text{ m}; 20 - 20 \text{ m}; 50 - 50 \text{ m}; C1 - 100 \text{ m}\}$ |
| XCE-Q8Q8Ngg | DAC cable, optic, QSFP28 to QSFP28, 100 Gb, length gg = $\{07 - 7 \text{ m}; 10 - 10 \text{ m}; 20 - 20 \text{ m}; 50 - 50 \text{ m}; C1 - 100 \text{ m}\}$ |
| XCD-QS4SNgg | DAC cable, copper, QSFP+ to $4xSFP+$, 40 Gb, length $gg = \{01 - 1 \text{ m}, 03 - 3 \text{ m}, 05 - 5 \text{ m}\}$ |
| XCD-QSQSNgg | DAC cable, copper, QSFP+ to QSFP+, 40 Gb, length $gg = \{01 - 1 m, 03 - 3 m, 05 - 5 m\}$ |
| XCD-Q8Q8Ngg | DAC cable, copper, QSFP28 to QSFP28, 100 Gb, length $gg = \{01 - 1 \text{ m}, 03 - 3 \text{ m}, 05 - 5 \text{ m}\}$ |
| Pluggables | |
| XTM855-M1LY | SFP28, multi mode, 850 nm, 25 Gbps, 100 m, LC |
| XQM853-MxPY | QSFP+, multi mode, 850 nm, 40 Gbps, 40GBASE-SR4, x = {1 - 100 m, 3 - 300 m}, MPO |
| XQS313-xxPY | QSFP+, single mode, 1310 nm, 40 Gbps, 40GBASE-LR4, $x = \{01 - 1 \text{ km}, 02 - 2 \text{ km}, 10 - 10 \text{ km}\}$, MPO |
| XQS313-xxLY | QSFP+, single mode, 1310 nm, 40 Gbps, 40GBASE-LR4, $x = \{10 - 10 \text{ km}, 40 - 40 \text{ km}\}$, LC |
| XQS319-10LY | QSFP28, single mode, 1310 nm, 100 G, 100GBASE-LR4, 10 km, LC |
| Services | |
| Power Supply Unit | |
| X1HY9ZZZ071Y | Red, F-2-B, AC, 750W |
| X1HY9ZZZ0720 | Blue, B-2-F, AC, 750W |
| Fan | |
| X1HYQZZZ0165 | FAN Module F-2-B |
| XHYQZZZ0166 | FAN Module B-2-F |

Notes:

¹ For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information.



Important Notice

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