



## IX2

### New Generation 25 G ToR Switch for Datacenter and Cloud Computing



#### Features

- ONIE Pre-loaded
- X86 CPU Board Support
- SDN Ready
- BMC Build-in
- Cumulus Linux Ready

#### Product Overview

Datacenter networking is evolving fast from 10 G and 40 G to 25 G and 100 G. Also, hardware and software are now independent, enabling the networking software of your choice to run atop the hardware you choose. XenOpt cloud technology provides a series of Bare Metal Switches (IX series) to help your company embrace the big changes facing your datacenter. XenOpt IX series supports Gigabit to 100 G Ethernet specifications. For applications such as performance, high availability, fast scale out, low latency performance and continuous serviceability, XenOpt IX series is the best choice for your datacenter.

XenOpt IX2 supports 48 SFP28 and 8 QSFP28 (10/40 or 25/50/100 GbE speed) ports in a compact rack unit size. By leveraging merchant silicon chipsets, the IX2 is a high-performance, high-density Ethernet switch with an affordable price for the deployment of datacenter infrastructure. With ONIE (Open Network Installation Environment) pre-loaded, the IX2 can be used with multiple operating system that supports ONIE installers to achieve agile installation and fast response when demand changes.

**Physical ports**

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

**CPU Board 1**

- CPU: Intel Rangeley
- Memory: 8 G DDR3/ECC
- Storage: 32GB SSD

**Performance**

- MAC: Unified Forwarding Table to dynamically allocate The L2/L3 tables
- Switching capacity: 4 TBps
- Maximum forwarding rate: Line Rate Performance
- Latency: < 450 ns

**High Availability**

- Redundant power supply: 1+1
- Hot-swappable fan tray: N+1

**Mechanical**

- Dimension (HxWxD): 44 x 440 x 508 mm
- Weight: 9,16 kg/20,2 lbs (NET)

**Environmental Specifications**

- Operating temperature: 0 – 45° C
- Operating Humidity: 90% maximum humidity

**Electrical**

- Power requirement: 100 – 240 VAC, 50/60 Hz
- Power consumption: 312 watts
- Safety: UL, cUL, CB
- EMC: CE, FCC, VCCI, CCC

**RoHS**

Reduction of Hazardous Substances (RoHS) 6

Ordering information<sup>1</sup>

PN	Description
<b>Switches</b>	
X11X2UZZ0ST6	Switch, 48 SFP28 and 8 QSFP28 ports (10/40 or 25/50/100 GbE), redundant PSU, Air Flow Direction Front to Back, with Rail Kit
X11X2UZZ0ST7	Switch, 48 SFP28 and 8 QSFP28 ports (10/40 or 25/50/100 GbE), redundant PSU, Air Flow Direction Back to Front, with Rail Kit
X11X2UZZ0STA	Switch, 48 SFP28 and 8 QSFP28 ports (10/40 or 25/50/100 GbE), redundant PSU, Air Flow Direction Front to Back, with Rail Kit, Cumulus Linux OS <sup>2</sup> pre-loaded
X11X2UZZ0STB	Switch, 48 SFP28 and 8 QSFP28 ports (10/40 or 25/50/100 GbE), redundant PSU, Air Flow Direction Back to Front, with Rail Kit, Cumulus Linux OS <sup>2</sup> pre-loaded
<b>Cables 40 G</b>	
XCE-QSQSNgg	Cable, 40 Gb, Direct attach, Optic, QSFP+ to QSFP+, length: gg = {07 – 7 m; 10 – 10 m; 20 – 20 m; 50 – 50 m; C0 – 100 m}
XCE-QS4SNgg	Cable, 40 Gb, Direct attach, Optic, QSFP+ to 4 x SFP+, length: gg = {07 – 7 m; 10 – 10 m; 20 – 20 m; 50 – 50 m; C0 – 100 m}
XCD-QSQSNgg	Cable, 40 Gb, Direct attach, Copper, QSFP+ to QSFP+, gg = {01 – 1 m; 3 – 3 m; 5 – 5 m}
XCD-QS4SNgg	Cable, 40 Gb, Direct attach, Copper, QSFP+ to 4 x SFP+, gg = {01 – 1 m; 3 – 3 m; 5 – 5 m}
<b>Cables 100 G</b>	
XCE-Q8Q8Ngg	Cable, 100 Gb, Direct attach, Optic, QSFP28 to QSFP28, gg = {01 – 1 m; 3 – 3 m; 5 – 5 m}
XCD-Q8Q8Ngg	Cable, 100 Gb, Direct attach, Copper, QSFP28 to QSFP28, gg = {01 – 1 m; 3 – 3 m; 5 – 5 m}
<b>Pluggables</b>	
XTM855-ffLY	SFP28, multi mode, 850 nm, 25 Gbps, ff <sup>3</sup> : up to 100 m
XTS315-10LY	SFP28, single mode, 1310 nm, 25 Gbps, 10 km
XQM853-ffPY	QSFP+, multi mode, 850 nm, 40 Gbps, 10GBASE-SR4, MPO, ff <sup>3</sup> : up to 600 m
XQS313-ffLY	QSFP+, single mode, 1310 nm, 40 Gbps, LC, 10GBASE-LR4, ff <sup>3</sup> : up to 40 km
XQM859-ffPY	QSFP28, multi mode, 850 nm, 100 Gbps, MPO, 10GBASE-SR4, ff <sup>3</sup> : up to 100 m
XQS319-ffPY	QSFP28, single mode, 1310 nm, 100 Gbps, MPO, 10GBASE-PSM4, ff <sup>3</sup> : up to 10 km
XQS319-ffLY	QSFP28, single mode, 1310 nm, 100 Gbps, LC, 10GBASE-LR4, ff <sup>3</sup> : up to 10 km
<b>Services</b>	
<b>Spare PSU and fan</b>	
X1HY9ZZZ071Y	PSU-Red, front to back, AC, 750 W
X1HY9ZZZ0720	PSU-Blue, back to front, AC, 750 W
X1HY9ZZZ0721	Fan module, front to back
X1HY9ZZZ0722	Fan module, back to front
<b>SW&amp;FW</b>	ONIE installed Cumulus Linux ready

**Notes:**

- <sup>1</sup> 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.
- <sup>2</sup> For accurate Cumulus FW ordering part number please refer to <http://www.cumulusnetworks.com/>, or contact XenOpt Reseller.
- <sup>3</sup> Modules of different lengths are available, please contact XenOpt or its representative for more information

**Important Notice**

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by XenOpt before they become applicable to any particular order or contract. In accordance with the XenOpt policy of continuous improvement specifications may change without notice.

The publication of information in this data sheet does not imply freedom from patent or other protective rights of XenOpt or others. Further details are available from any XenOpt sales representative.

To find out more, please contact