

ASXvOLT16 Bare-Metal Hardware



Product Overview

The ASXvOLT16 is a 16-10G-port XGS-PON virtual Optical Line Terminal (vOLT) with 4 x 100G/40G QSFP28 fixed ports. The 10G ports, 100G uplink ports, and console/management USB ports are all on the front panel. All 10G ports operate at wire-speed by default and support standard XGS-PON transceivers. The QSFP28 ports support 100G and 40G operation modes, as well as being configurable as 4 x 25GbE or 4 x10 GbE modes using DAC breakout cables. This vOLT supports redundant hot-swappable PSUs and fans, and is available with a front-to-back or back-to-front airflow direction.

Key Features and Benefits

- Cost-effective, bare-metal switch infrastructure for data center fabric.
- 4 x QSFP28 switch ports, each supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables 2 x 50 GbE, 4 x 25 GbE, or 4 x 10 GbE.
- Layer 2 or Layer 3 forwarding at 300 Gbps (full duplex).
- Supports hot/cold aisles with front-to-back and back-to-front airflow SKUs.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant AC or -48V DC or 12V DC PSUs.
- 5+1 redundant, hot-swappable fan modules.
- Handles the abstraction between the protocol and the native hardware RPC.
- OpenFlow Agent
- NETCONF Agent
- OLT OMCI Agent
- Interworking Logic between OpenFlow/NETCONF Agent and HW SDK
- PON/ONU management
- Bare-Metal hardware switch pre-loaded with diagnostics software and with Open Network Install Environment (ONIE) for automated loading of compatible open source and commerical NOS offerings.

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ASXvOLT16 Product Specifications

Features

Ports

Switch Ports: 16 x XGS-PON ports 4 x QSFP28 100 GbE Management ports on port side: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management 1 x USB Type A storage

Key Componets

Switch Silicon: BCM88470 300 Gbps CPU Modules: Intel Broadwell-DE XeonD-1518 2.2 GHz 8 GB x 2 SO-DIMM DDR4 RAM 16 MB SPI Flash (Boot) 4 MB SPI Flash (LAN) 2 MB SPI Flash 2 PCIe dual-port dual-media Gigabit Ethernet controller* mSATA: 32 GB MLC (reserve) USB to NAND Flash: 8 GB SLC (reserve) m.2: 32 GB MLC CPLD: Altera 5M1270ZF256 TPM: ST33ZP24AR28PVSP ST Reserve mSATA connector

Performance

Switching Capability: 300 Gbps Jumbo frames support up to 9 Kbytes Packet Buffer Size: 32 K programmable wire-rate queues Subject to NOS: MAC Addresses: 250 K VLAN IDs: 4 K IPv4 forwarding database: 128 K IPv6 forwarding database: 48 K

Physical and Environmental

Dimensions (WxDxH): 43.8 x 60.9 x 4.35 cm (17.3 x 23.9 x 1.7 in) Weight: 10 kg (23 lb) Fans: Hot-swappable 5 + 1 redundant fans Operating Temperature: 5°C to 40°C (41°F to 104°F) Storage Temperature: -40°C to 40°C (-40°F to 104°F) Operating Humidity: 5% to 85% non-condensing

LEDs

QSFP28 Port LEDs: Link Status, Activity, Rate Ethernet Management Port LED: Link Status, Activity Console Port LED: Link Status System LEDs: Diagnostic, Locator, PSU and Fan Status

Power

PSUs: 2 redundant, load-sharing, hot-swappable AC or -48 VDC Input Voltage: 90 to 240 VAC at 50-60 Hz or -36 to -72 VDC

Regulatory

EMI CE Mark EN55022 Class A EN55024 EN61000-3-2 EN61000-3-3 FCC Part 15 Subpart B Class A VCCI Class A CCC Safety СВ UL/CU/NRTL CCC Environmental: Vibration: GR-63-CORE Shock: GR-63-CORE, GR-1089-CORE Acoustic Level: 78 dB sound power at 26°C **RoHS-6** Compliant Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

About Edgecore Networks Corporation

Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore Data Center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (877) 828-CORE (877-828-2673) or authorized resellers.

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