

Open Architecture XGS-PON OLT

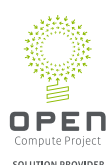
ASXvOLT16



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 x 10 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. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System (NOS) software, including the open source plus commercial NOS offerings.

Key Features and Benefits

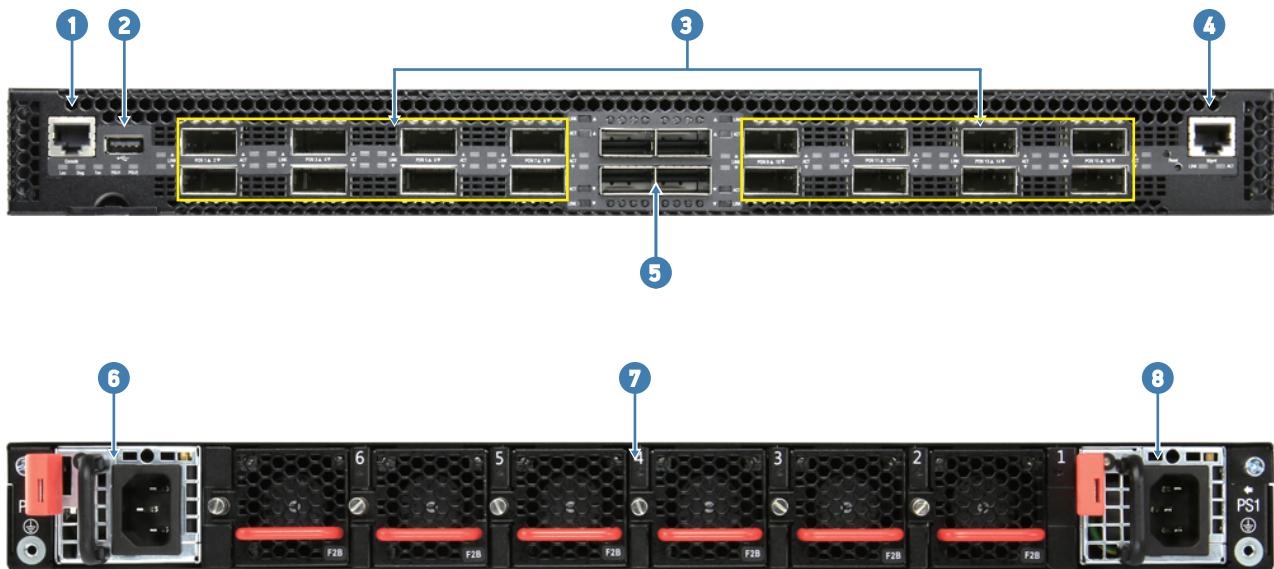
- Cost-effective hardware for communication service providers.
- 4 x QSFP28 switch ports, each supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables 2 x 50 GbE, 4 x 25 GbE, or 4 x 10 GbE.
- Layer 2 or Layer 3 forwarding at 300 Gbps (full duplex).
- Supports hot/cold aisles with front-to-back airflow SKU.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant AC or -48V DC PSUs.
- 5+1 redundant, hot-swappable fan modules.
- Handles the abstraction between the protocol and the native hardware RPC.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.



Free Software Included



Interfaces



Description

- | | | | |
|-----|--------------------------------|----|----------------------------------|
| 1. | 1 x RJ-45 console port | 5. | 4 x 40/100G QSFP28 ports |
| 2. | 1 x USB2.0 Type A storage port | 6. | PSU2 |
| 3. | 16 x XFP XGS-PON ports | 7. | Hot-Swappable 5+1 redundant fans |
| 4.. | 1 x RJ-45 management port | 8. | PSU1 |

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 Components

- Switch Silicon: BCM88470 300 Gbps
- CPU Modules:
 - Intel Broadwell-DE Xeon D-1518 2.2 GHz
 - 8 GB x 2 SO-DIMM DDR4 RAM
 - 16 MB SPI Flash (Boot)

Performance

- Switching Capability: 300 Gbps
- Jumbo frames support up to 9 Kbytes
- Packet Buffer Size: 32 K programmable wire-rate queues

Physical and Environmental

- Dimensions (WxDxH): 438 x 609 x 43.5 mm (17.3 x 23.9 x 1.7 in)
- Weight: 10 kg (22.04 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
- 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 Compliance

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

*Future Release

Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: open source options, plus commercial NOS offerings.

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

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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.

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Ordering Information

Base model: ASXvOLT16; Intel® Xeon® D-1518 Processor, 16 x XGS-PON ports, 4 x 100 GbE QSFP28 ports; ONIE software installer.

Model Number	Part Number	PSU	Airflow	Region (power cord)
ASXvOLT16-O-48V-F	FN1EC0816404Z	Dual 48 VDC PSUs	Port-to-Power airflow	NA
ASXvOLT16-O-AC-F	FN1EC0816003Z	Dual AC PSUs	Port-to-Power airflow	NA
ASXvOLT16-O-AC-F-US	FN1EC0816405Z	Dual AC PSUs	Port-to-Power airflow	N. America
ASXvOLT16-O-AC-F-CH	FN1EC0816700Z	Dual AC PSUs	Port-to-Power airflow	CN
ASXvOLT16-O-AC-F-EU	FN1EC0816200Z	Dual AC PSUs	Port-to-Power airflow	EU
ASXvOLT16-O-AC-F-JP	FN1EC0816500Z	Dual AC PSUs	Port-to-Power airflow	JP
ASXvOLT16-O-AC-F-UK	FN1EC0816300Z	Dual AC PSUs	Port-to-Power airflow	UK