OPEN XGS-PON OLT
ASXvOLT16

ASXvOLT16 is a 16 port 10G XGS-PON virtual Optical Line Terminal (vOLT) with 4 fixed 40/100G QSFP28 uplink ports capable of breaking out to 4 x 25/10G. All interfaces are able to be accessed from the front panel. All 10G XGS-PON ports are able to operate at line rate by default and support transceivers meeting 10G XGS-PON standards.

This vOLT platform supports redundant hot-swappable PSUs and fans, and is available with a front-to-back 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.
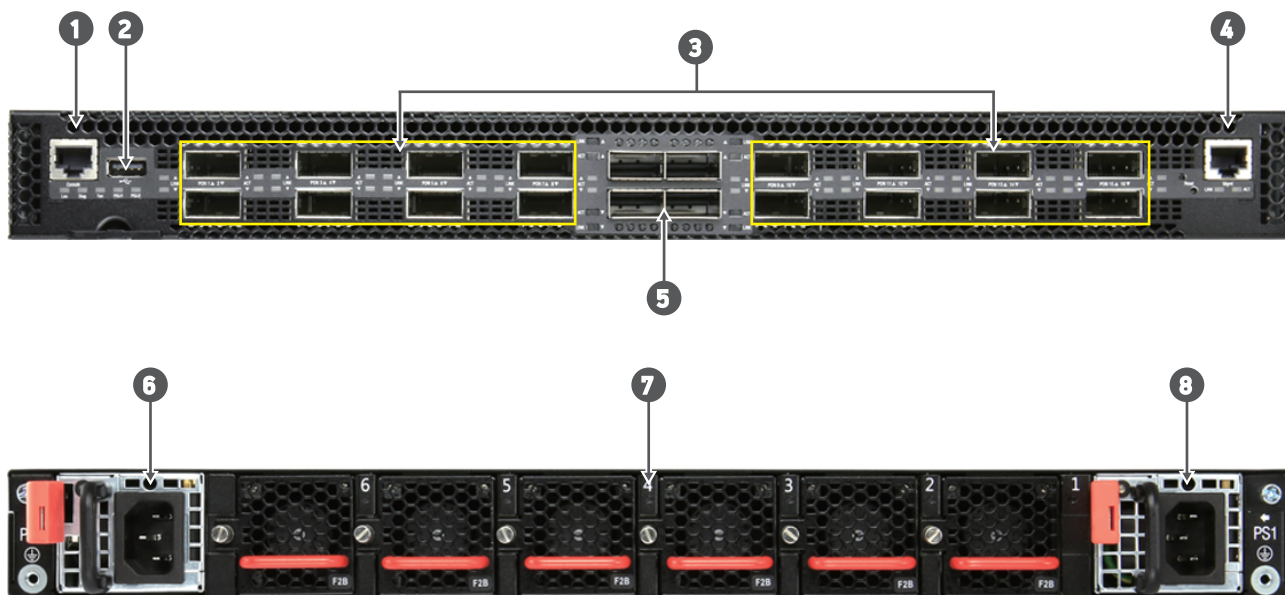
Key Features and Benefits

- 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 commerical NOS offerings.

TAIWAN EXCELLENCE 2019 · OPEN ACCEPTED · OPEN PLATINUM · OPEN Compute Project SOLUTION PROVIDER · Freedom of choice · Greater control · Rapid innovation · Reduced CAPEX and OPEX

Free Software Included

onie

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 (storage)
- Supported Transceivers and Cables:
  XGSPON Class N2
  - Note: More optics and detailed cabling information can be found at www.edge-core.com.

Key Components

- Switch Silicon: Broadcom BCM88470 Qumran-AX
- PON ASIC: Broadcom BCM68628
- CPU Modules:
  Intel® Xeon® D-1518 processor 4-Core 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

- DC Input: -36 - -72V, 12A Max
- AC Input: 100-240V, 5A Max

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.

Regulatory Compliance

- Safety Compatibility
  CB
  UL/CU/NRTL
- EMI
  CE Mark
  EN55022 Class A
  EN55024
  EN61000-3-2
  EN61000-3-3
- FCC Part 15 Subpart B Class A
- VCCI Class A
- 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)

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 (949)-336-6801 or authorized resellers.

*Future Release

Ordering Information

Base Model: ASXvOLT16; Intel® Xeon® D-1518 4-Core, 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	Front-to-Back Airflow	NA
ASXvOLT16-O-AC-F	FN1EC0816003Z	Dual AC PSUs	Front-to-Back Airflow	NA
ASXvOLT16-O-AC-F-US	FN1EC0816405Z	Dual AC PSUs	Front-to-Back Airflow	N. America
ASXvOLT16-O-AC-F-CH	FN1EC0816700Z	Dual AC PSUs	Front-to-Back Airflow	CN
ASXvOLT16-O-AC-F-EU	FN1EC0816200Z	Dual AC PSUs	Front-to-Back Airflow	EU
ASXvOLT16-O-AC-F-JP	FN1EC0816500Z	Dual AC PSUs	Front-to-Back Airflow	JP
ASXvOLT16-O-AC-F-UK	FN1EC0816300Z	Dual AC PSUs	Front-to-Back Airflow	UK