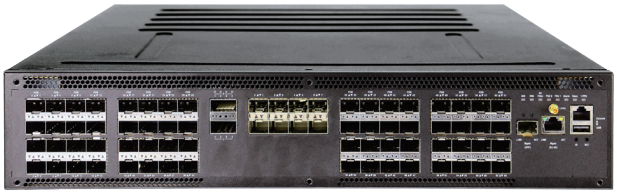
Open Architecture GPON OLT

ASGvOLT64



The ASGvOLT64 is an open GPON OLT featuring 64 GPON ports with 8 x 10/25G SFP28, and 2 x 40G/100G QSFP28 fixed ports. The OLT complies with the ITU-T G.984 GPON standard. The GPON ports, SFP28/QSFP28 uplink ports, and console/management USB ports are all on the front panel. All GPON ports operate at wire-speed by default and support standard GPON transceivers. The QSFP28 ports support 100G and 40G operation modes, as well as being configurable as 4 x 25 GbE or 4 x10 GbE modes using DAC breakout cables. This disaggregated OLT supports redundant hot-swappable PSUs and fans, and is available with front-to-back airflow design. 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

- High capacity 64 port GPON OLT for next generation open and disaggregated access network architecture.
- 2 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 front-to-back airflow SKU.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, and redundant AC or DC PSUs.
- 3+1 redundant, hot-swappable fan modules.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commerical NOS offerings.

Freedom of choice

Greater control

Rapid innovation

Reduced CAPEX and OPEX

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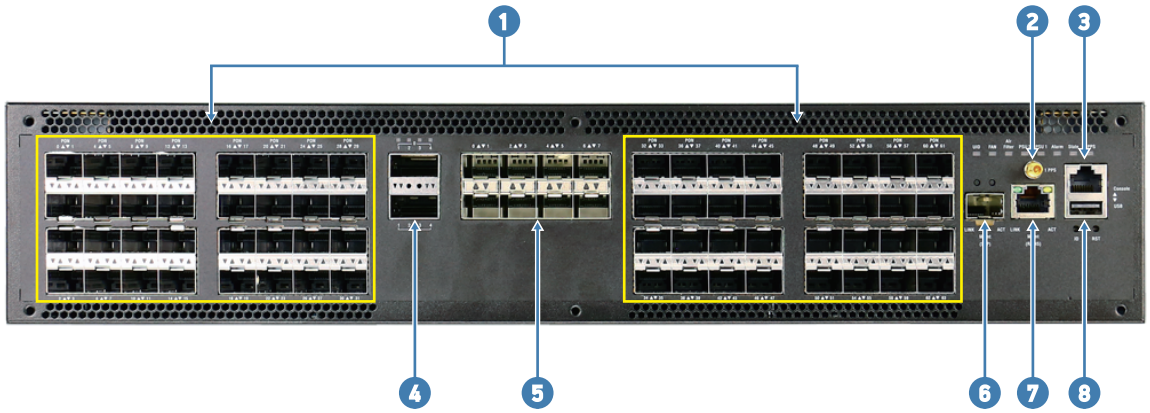
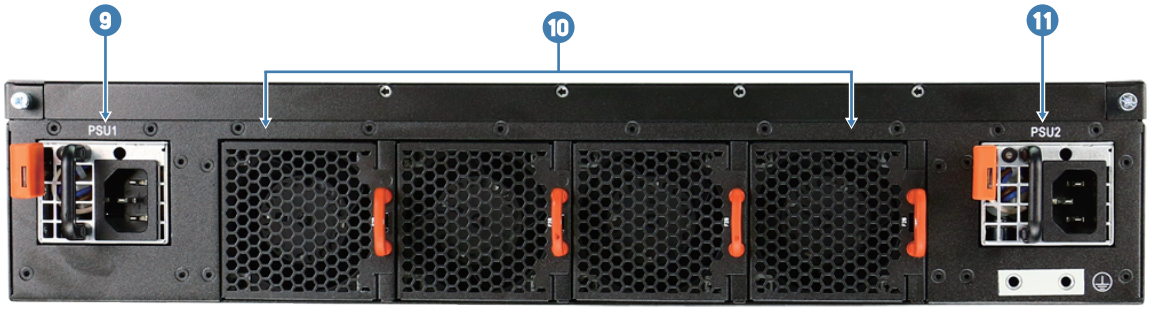
Free Software Included

Interfaces





Description			
1.	64 x SFP GPON ports	7.	1 x RJ-45 management port
2.	1pps Output	8.	1 x USB2.0 storage port
3.	1 x RJ-45 console port	9.	PSU1
4.	2 x 40/100G QSFP28 ports	10.	Hot-swappable 3 + 1 redundant fans
5.	8 x 10/25 SFP28 ports	11.	PSU2
6.	1 x SFP management port		

ASGvOLT64 Open Architecture GPON OLT

Ports
- Fixed Ports:
  64 x GPON ports (ITU-T G.984 compliant)
  8 x 10G/25G SFP28
  2 x 40G/100G QSFP28
- Management ports on port side:
  1 x RJ-45 serial console
  1 x RJ-45, and 1 x SFP Combo management ports supporting 1000BASE-T and 1000BASE-X
  1 x USB Type A storage
- Supported Transceivers and Cables:
  GPON Class B+/C+
  1000BASE-SX/LX
  10GBASE-SR/LR
  25GBASE-SR/LR
  40GBASE-SR4/LR4
  100GBASE-LR4
  - Note: More optics and detailed cabling information can be found at www.edge-core.com.

Key Components
- Switch Silicon: Broadcom Qumran-AX BCM88470 300 Gbps
- PON ASIC: Broadcom BCM68622
- CPU Modules:
  Intel® Pentium® D-1519 1.5GHz
  DDR SDRAM: 8 GB x 2 2133 MHz with ECC (SO-DIMM) DDR4

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): 477 × 600 x 89 mm (18.78 x 23.62 x 3.50 in)
- Weight: 16.51 kg (36.39 lb)
- Fans: Hot-swappable 3 + 1 redundant fans
- Operating Temperature: 0°C to 40°C (32°F to 104°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Humidity: 5% to 95% non-condensing

LEDs
- SFP28/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: 100 to 240 VAC at 50-60 Hz or -36 to -72 VDC
- Power Consumption: 480 W

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: IEC 60950-1 2nd & IEC62368-1 2nd
  UL 62368-1 and CSA C22.2 No. 62368-1-14
- EMI
  CE Mark
  EN55032 Class A
  EN55024/35
  EN61000-3-2
  EN61000-3-3
- FCC Part 15 Subpart B Class A
  EN 300 386
- Environmental Compliance
  Storage: ETSI 300 019-2-1 Class 1.2
  Transportation: ETSI 300 019-2-2 Class 2.3
  Operational: ETSI 300 019-2-3 Class 3.3
  Altitude: IEC60068-2-40, IEC60068-2-41, IEC60068-2-13
  Humidity: IEC60721-3-3 Class 3K4, IEC60068-2-56, IEC60068-2-30
  Acoustic noise: ETS 300753
  RoHS-6 Compliant

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.

Ordering Information

Base model: ASGvOLT64; Intel® Pentium® D-1519 Processor, 64 x GPON ports, 8 x 10G/25G SFP28, 2 x 40G/100G QSFP28; ONIE software installer.

Model Number	Part Number	PSU	Airflow	Region (power cord)
ASGvOLT64-O-48V-F	FN1EC0964005Z	Dual 48 VDC PSUs	Port-to-Power airflow	NA
ASGvOLT64	FN1EC0964000Z	Dual AC PSUs	Port-to-Power airflow	NA
ASGvOLT64-O-AC-F-TW	FN1EC0964T01Z	Dual AC PSUs	Port-to-Power airflow	TW
ASGvOLT64-O-AC-F-US	FN1EC0964400Z	Dual AC PSUs	Port-to-Power airflow	N. America
ASGvOLT64-O-AC-F-EU	FN1EC0964200Z	Dual AC PSUs	Port-to-Power airflow	EU
ASGvOLT64-O-AC-F-UK	FN1EC0964300Z	Dual AC PSUs	Port-to-Power airflow	UK
ASGvOLT64-O-AC-F-JP	FN1EC0964500Z	Dual AC PSUs	Port-to-Power airflow	JP

Transceiver Product ID	Data Rate	Form Factor	Max. Reach	Cable Type	Media	Connector Type	Case Temp.
ET4202-SX	1 Gbps	SFP	550 m	Duplex Fiber	MMF	LC	0°C to +70°C
ET4202-LX	1 Gbps	SFP	10 km	Duplex Fiber	SMF	LC	0°C to +70°C
ET5402-SR	10 Gbps	SFP+	OM3: 70 km OM4: 100 km	Duplex Fiber	MMF	LC	0°C to +70°C
ET5402-LR	10 Gbps	SFP+	10 km	Duplex Fiber	SMF	LC	0°C to +70°C
ET7302-SR	25 Gbps	SFP28	OM3: 70 km OM4: 100 km	Duplex Fiber	MMF	LC	0°C to +70°C
ET7302-LR	25 Gbps	SFP28	10 km	Duplex Fiber	SMF	LC	0°C to +70°C
ET6401-SR4	40 Gbps	QSFP+	OM3: 100 km OM4: 150 km	Duplex Fiber	MMF	LC	0°C to +70°C
ET6401-LR4	40 Gbps	QSFP+	10 km	Duplex Fiber	SMF	LC	0°C to +70°C
ET7402-LR4	100 Gbps	QSFP28	10 km	Duplex Fiber	SMF	LC	0°C to +70°C