

# 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 x 10 GbE modes using DAC breakout cables. This disaggregated OLT supports redundant hot-swappable PSUs and fans, and is available with front-to-back, and back-to-front airflow design.

### Key Features and Benefits

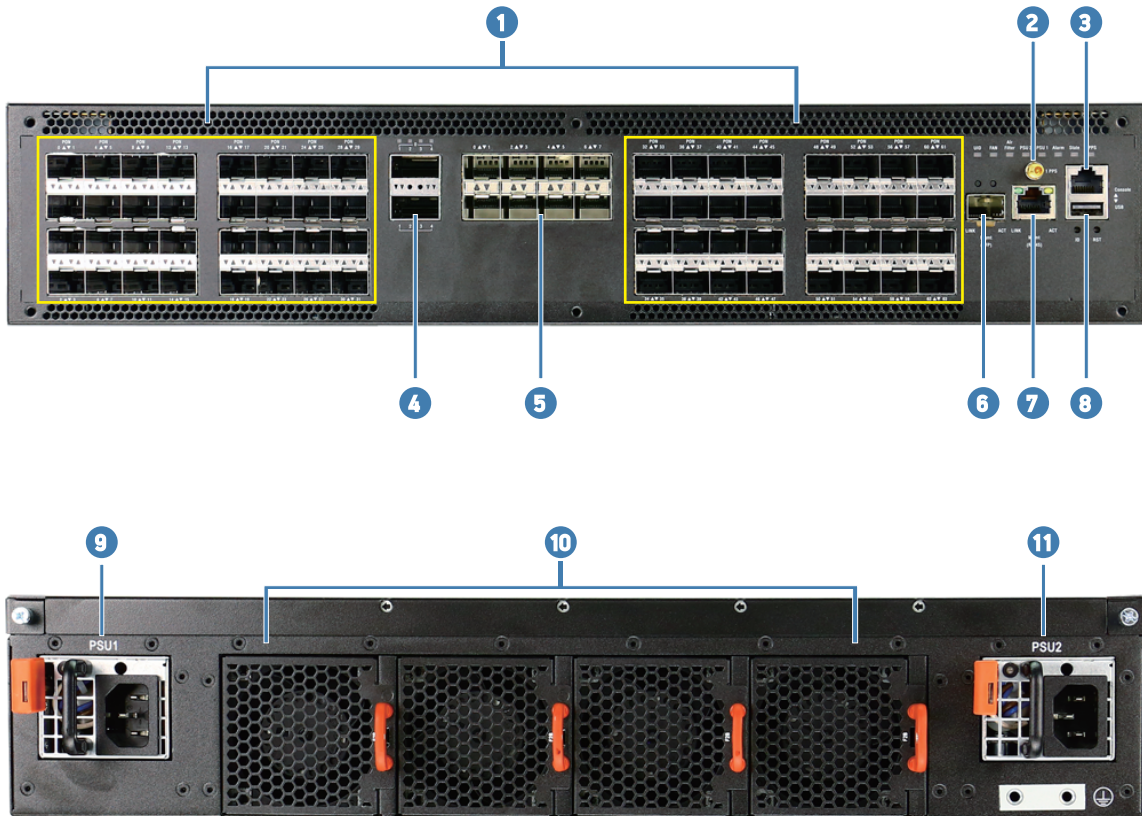
- High capacity 64 port GPON OLT for next generation open and disaggregated access network architecture.
- 2 x QSFP28 switch ports, each supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables 2 x 50 GbE, 4 x 25 GbE, or 4 x 10 GbE.
- Layer 2 or Layer 3 forwarding at 300 Gbps (full duplex).
- Supports 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.
- Bare-metal hardware switch pre-loaded with diagnostic software and with Open Network Install Environment (ONIE) for automated loading of compatible open source or commercial NOS offerings.



Software Supported



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  |  |

## 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

## Key Components

- Switch Silicon: BCM88470
- PON ASIC: 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 (HxWxD): 89 mm (H) x 477 mm (W) x 600 mm (D)
- Weight: 16.51 kg
- 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

## Regulatory Compliance

- EMI
  - CE Mark
    - EN55032 Class A
    - EN55024/35
    - EN61000-3-2
    - EN61000-3-3
- FCC Part 15 Subpart B Class A
  - EN 300 386
- Safety
  - CB : IEC 60950-1 2nd & IEC62368-1 2nd
  - UL 62368-1 and CSA C22.2 No. 62368-1-14
- 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](http://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](http://www.edge-core.com).

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## GPON supported transceiver

Model Number	Description
Hisense LTE3680M-BH+	LTE3680M SFP GPON OLT Transceiver CLASS B+, 2488/1244Mb/s With Digital RSSI Function, Case Operating Temperature -40 to +85°C

## Ethernet supported transceivers

	Model Number
1G	ET4202-SX
	ET4202-LX
10G	ET5402-SR
	ET5402-LR
25G	ET7302-SR
	ET7302-LR
40G	ET6401-SR4
	ET6401-LR4
100G	ET7402-LR4