




edge-core 64-Port GPON vOLT User Guide

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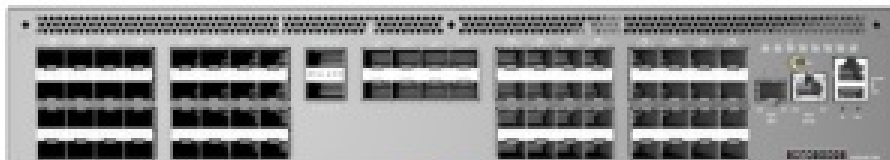


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Package Contents

1. ASGvOLT64



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2. Rack mounting kit–2 brackets and 24 screws



2



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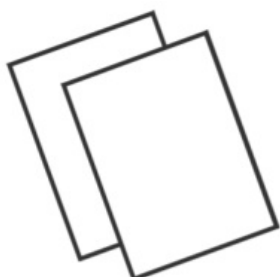
3. 2 x Power cord

4. Console cable–RJ-45 to D-Sub



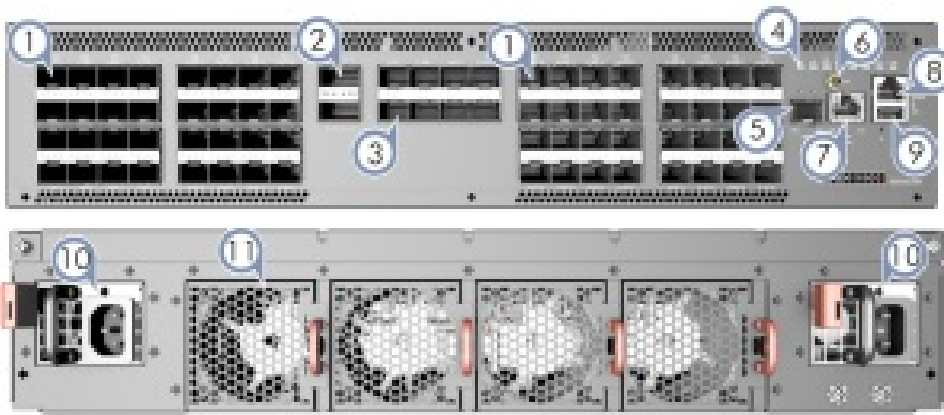
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5. Documentation–Quick Start Guide (this document) and Safety and Regulatory Information



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Overview



1. 64 x SFP GPON ports
2. 2 x QSFP28 40G/100G ports
3. 8 x SFP28 10G/25G ports
4. System LEDs
5. 1 x SFP Management port
6. 1 x 1PPS
7. 1 x RJ45 Management port
8. 1 x RJ45 Console port
9. 1 x USB port
10. 2 x AC PSUs
11. 4 x Fan trays

System LEDs



UID LED: Blinking blue

FAN LED: Off (OK), Red (fault)

Air Filter LED: Off (OK), Red (change filter)

PSU LEDs: Green (OK), Red (fault) Alarm LED: Green (OK), Blue (minor), Red (major)

State LED: Green (OK), Blue (initializing), Red (fault)

1PPS LED: Green (OK)

Port LEDs



SFP GPON Port LEDs: Green (link up and in service), Blue (disable), Red (fault), Blinking (activity)
QSFP28 Port LEDs: Green (100G), Blue (40G), Orange (4G), Blinking (activity)
SFP28 Port LEDs: Green (25G), Blue (10G), Orange (1G), Blinking (activity)

FRU Replacement

PSU Replacement

- 1. Remove the power cord.
- 2. Press the release latch and remove the PSU.
- 3. Install replacement PSU with matching airflow direction.




Fan Tray Replacement

- 1. Loosen the fan tray screw.
- 2. Remove fan tray from the chassis.
- 3. Install replacement fan with matching airflow direction.

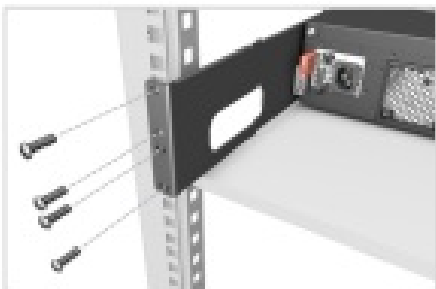
Airflow Reversal

- 1. F2B Airflow Remove front-to-back (F2B) airflow fan trays (red handles) and PSUs (red release latches).
- 2. B2F Airflow Install back-to-front (B2F) airflow fan trays (blue handles) and PSUs (blue release latches).

Installation

	Warning: For a safe and reliable installation, use only the accessories and screws provided with the device. Use of other accessories and screws could result in damage to the unit. Any damages incurred by using unapproved accessories are not covered by the warranty.
	Caution: The device includes plug-in power supplies (PSUs) and fan tray modules that are installed in to its chassis. Make sure all installed modules have a matching airflow direction.
	Note: The device has the Open Network Install Environment (ONIE) software installer preloaded on the switch, but no switch software image. Information about compatible switch software can be found at www.edge-core.com . Note: Model name and approval markings are indicated on the product label located on the bottom of the device.

Mount the Device



1. Attach the Brackets Use the included screws to attach the left and right brackets.
2. Mount the Device Mount the device in the rack and secure it with rack screws.

Ground the Device



Ensure the Rack is Grounded

Ensure the rack on which the device is to be mounted is properly grounded and in compliance with ETSI ETS 300 253. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).

Ground the Device

Attach a #14 AWG grounding wire (not included) to the grounding point on the device rear panel. Then connect the other end of the wire to rack ground.

Connect Power

AC or DC Power

Connect the two AC or DC PSUs to a power source.



Caution: Use a UL/IEC/EN 60950-1 certified power supply to connect to a DC converter, and a #14 AWG (for -36 – -72 VDC PSU).



1. Connect the RTN return. (red wire).
2. Connect the -36 – -72 VDC (black wire).
3. Connect the Chassis Ground (yellow-green wire)



Note: DC terminal screws should be tightened to a torque of 6.6 in-lbs.

Verify Device Power

Check the PSU LEDs

The PSU1/PSU2 LEDs should be on green when operating normally.

Make Network Connections



1. SFP GPON slots

First install GPON transceivers and then connect fiber optic cabling to the transceiver ports



2. QSFP28 slots

First install QSFP28 transceivers and then connect fiber optic cabling to the transceiver ports.

3. SFP28 slots

First install SFP28 transceivers and then connect fiber optic cabling to the transceiver port

Connect the Timing Port

1PPS port

Use a coax cable to connect the 1-pulse-per-second (1PPS) SMB port to another synchronized device.

Make Management Connections



1. SFP/RJ-45 slots

Combo RJ-45/SFP Ethernet out-of-band (OOB) management port to provide a network management

connection.

2. RJ-45 Console port

Connect the included console cable and then configure the serial connection: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.

3. USB port

Connect using a standard USB cable to a storage device.

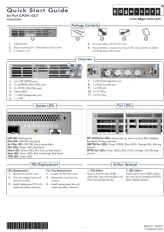
Hardware Specifications

Chassis	
Size (WxDxH)	77 x 600 x 89 mm (18.78 x 23.62 x 3.50 in)
Weight	16.51 kg (36.40 lbs)
Temperature	Operating: 0° C to 40° C (32° F to 104° F) Storage: -40° C to 70° C (-40° F to 158° F)
Humidity	Operating: 5% to 95% (non-condensing)
System Input Rating	
AC Input	100-240 Vac, 50-60 Hz, 5.5-2.3 A
DC Input	-36 – -72 Vdc, 16-8 A
Power Consumption	480 W
Regulatory Compliances	
Emissions	EN 55032:2015+AC:2016, Class A EN 61000-3-2:2014, Class A EN 61000-3-3:2013 FCC Class A
Immunity	IEC 61000-4-2/3/4/5/6/8/11 EN 55024:2010+A1:2015 EN 55035:2017
Safety	UL (UL 62368-1 & CSA C22.2 No. 62368-14 CB (IEC/EN 60950-1, IEC/EN 62368-1)



www.edge-core.com

Documents / Resources



[edge-core 64-Port GPON vOLT](#) [pdf] User Guide ASGvOLT64, ASGvOLT64-QSG-TC, ASGvOLT64-QSG-R01