




Edge-Core AS5915-18X Cell Site Gateway User Guide

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Quick Start Guide

Cell Site Gateway

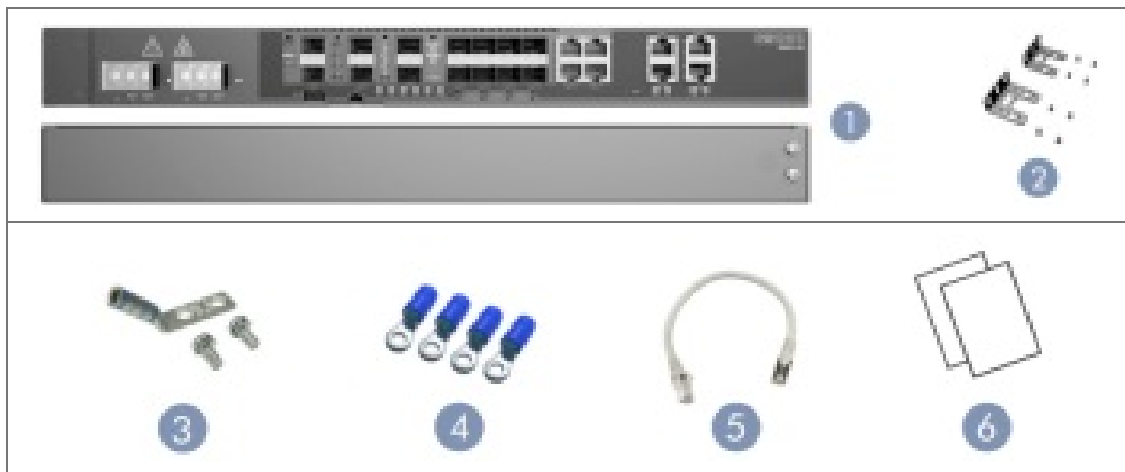
AS5915-18X

www.edge-core.com

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Package Contents



1. AS5915-18X
2. Rack Mounting Kit—2 brackets and 8 screws
3. Grounding kit—grounding lug, 2 screws, and 2 washers
4. Ring lugs (x4)
5. Category 6 stacking cable
6. Documentation—Quick Start Guide (this document) and Safety and Regulatory Information

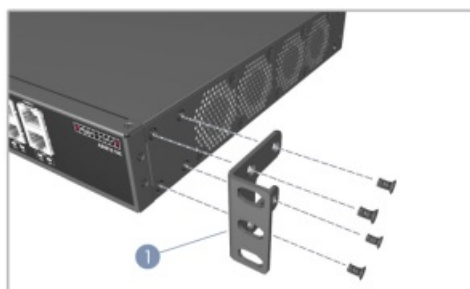


Caution: The device must be installed in a restricted access location.

Note: The router has the Open Network Install Environment (ONIE) software installer pre-loaded on the router, but no software image. Information about compatible software can be found at www.edge-core.com.

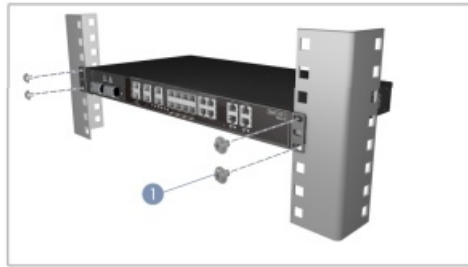
Note: The drawings in this document are for illustration only and may not match your particular model.

Attach the Brackets



1. Attach each of the brackets to the router with four of the included bracket screws.

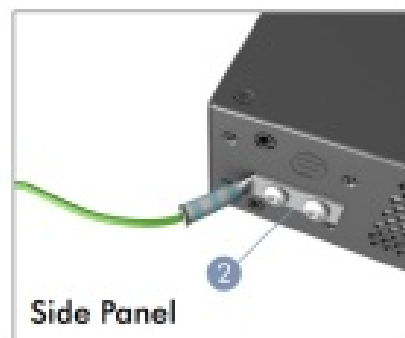
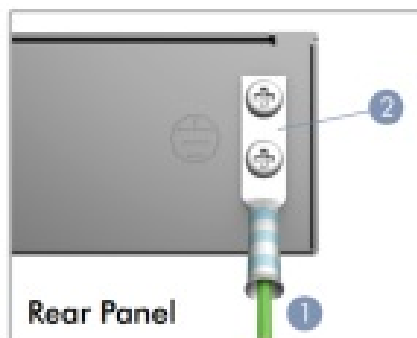
Mount the Router in an EIA-310 Rack



1. Use the screws and cage/clip nuts supplied with the rack to secure the router in the rack.



Ground the Router



1. Ensure the rack is properly grounded and in compliance with international and local standards. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).
2. Attach the grounding wire (#6 AWG/16 mm²) to the grounding point on the router's rear panel or side panel. Then connect the other end of the wire to rack ground.



Caution: The earth connection must not be removed unless all supply connections have been disconnected.

Connect Power

- 1.



Connect an external DC power source to the PSUs. Or, connect to a no-tolerance DC mains supply with a UL/CSA-approved circuit breaker rated at 16 A.

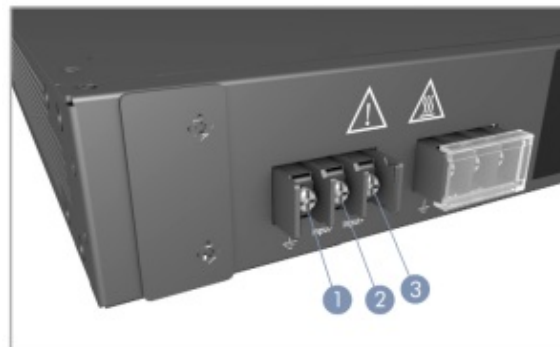


Caution: Before connecting power supply cables to the router, ensure that power to the feed lines is turned off at the supply circuit breaker or disconnected from the power bus.

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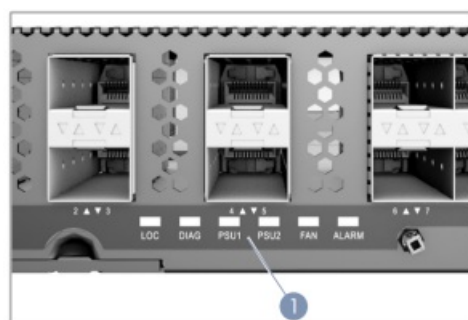
Caution: Use a UL/IEC/EN 60950-1 certified power supply to connect to a DC converter, and a #14 AWG/ 1.5 mm² (for 36 VDC to 72 VDC PSU) copper wire to connect to a DC PSU.



1. Connect the ground wire/earth.
2. Connect the -36 – -72 VDC wire.
3. Connect the DC return wire.

Verify Power Status

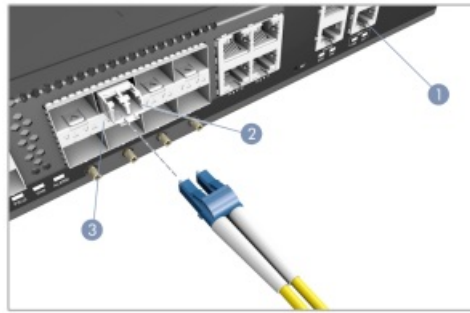
- 1.



Verify the router is receiving power by checking the system LEDs. After power is on, the PSU1/PSU2 LEDs should be on the green.

Connect Network Cables

- 1.

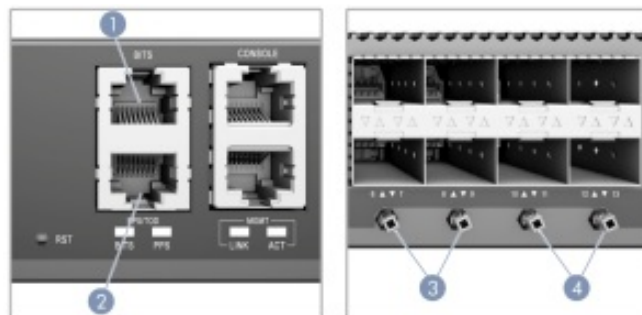


For the RJ-45 Management port, connect 100-ohm Category 5, 5e, or better twisted-pair cable.

2. Connect DAC cables to the SFP/SFP+ slots. Or first, install SFP/ SFP+ transceivers in the slots and then connect fiber optic cabling to the transceiver ports.
3. As connections are made, check the port status LEDs to be sure the links are valid.

Connect Timing Ports

- 1.



Use a shielded cable to connect the Building-Integrated Timing Supply (BITS) port to other devices that use BITS synchronization signals.

2. Use a shielded cable to connect the Pulse-Per-Second (PPS) / Time-of-Day (ToD) port to other devices that use these synchronization signals.
3. Use coax cables to connect the 1-pulse-per-second (1PPS) in/ out SMB ports to other synchronized devices.
4. Use coax cables to connect the 10 MHz in/out SMB ports to other synchronized devices.

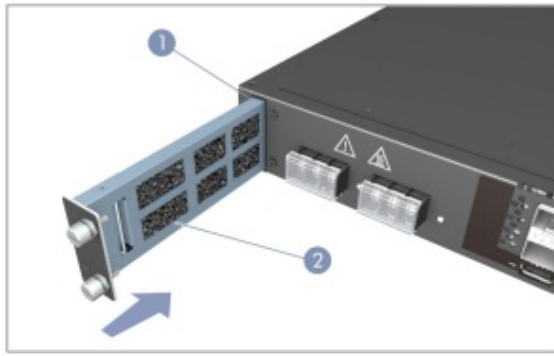
Perform Initial System Boot

1. If the network operating system (NOS) installer is located on a network server, first connect the RJ-45 Management (Mgmt) port to the network using 100-ohm Category 5, 5e, or better-twisted pair cable. (Not required if the NOS installer is located on attached storage.)
2. Boot the router. Wait for the ONIE software to locate and execute the NOS installer, and then wait for the installer to load the NOS software image. Subsequent router boots will bypass ONIE and directly run the NOS software.



Note: Refer to the network operating system (NOS) installer and NOS documentation for details on software options and setup for ONIE.

(Optional) Install the Air Filter



1. Unscrew and remove the air filter slot cover.
2. Slide the air filter assembly (ordered separately) into the slot and secure it with its two captured screws.

Hardware Specifications

Router Chassis

Size (WxDxH)	440 x 240 x 43.7 mm (17.32 x 9.45 x 1.72 in.)
Weight	3.8 kg (8.38 lb), with two installed PSUs
Temperature	Operating: -40° C to 70° C (-40° F to 158° F) Storage: -40° C to 85° C (-40° F to 185° F)
Humidity	Operating: 5% to 95% (non-condensing)
Power Consumption	180 Watts maximum

48 VDC PSU

Power Rating	-48 VDC, 180 Watts
DC Input	-36 V – -72 V, 6 A

Regulatory Compliances

Emissions	<p>EN 55032:2015+AC:2016, Class B EN 300 386 V1.6.1 FCC Title 47, Part 15, Subpart B, Class B VCCI CISPR 32:2016, Class B BSMI Class B, CNS 13438</p>
Immunity	<p>EN 55035:2017 EN 55024:2010+A1:2015 IEC 61000-4-2/3/4/5/6/8/11</p>
Environmental	<p>Storage:</p> <ul style="list-style-type: none"> • ETSI EN 300 019-1-1 Class 1.1 • Temperature: -5°C to +45°C (+23°F to +113°C) <p>Transportation:</p> <ul style="list-style-type: none"> • ETSI EN 300 019-1-2 Class 2.3 • Temperature: -40°C to +70°C (-40°F to +158°C) <p>Operating Conditions:</p> <ul style="list-style-type: none"> • ETSI EN 300 019-1-3 Class 3.2 • Temperature: -40°C to +65°C (-40°F to +149°C) • Relative Humidity: 5% to 95%
Safety	<p>CB IEC/EN60950-1 & IEC/EN62368-1 UL/CSA No 62368-1 BSMI CNS14336-1</p>

Documents / Resources

	<p>Edge-Core AS5915-18X Cell Site Gateway [pdf] User Guide Edge-Core, AS5915-18X, Cell, Site, Gateway, Cell Site Gateway</p>
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