




**AS7515-24  
X Cell Site  
Gateway**



# Edge-core AS7515-24X Cell Site Gateway User Guide

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## Edge-core AS7515-24X Cell Site Gateway



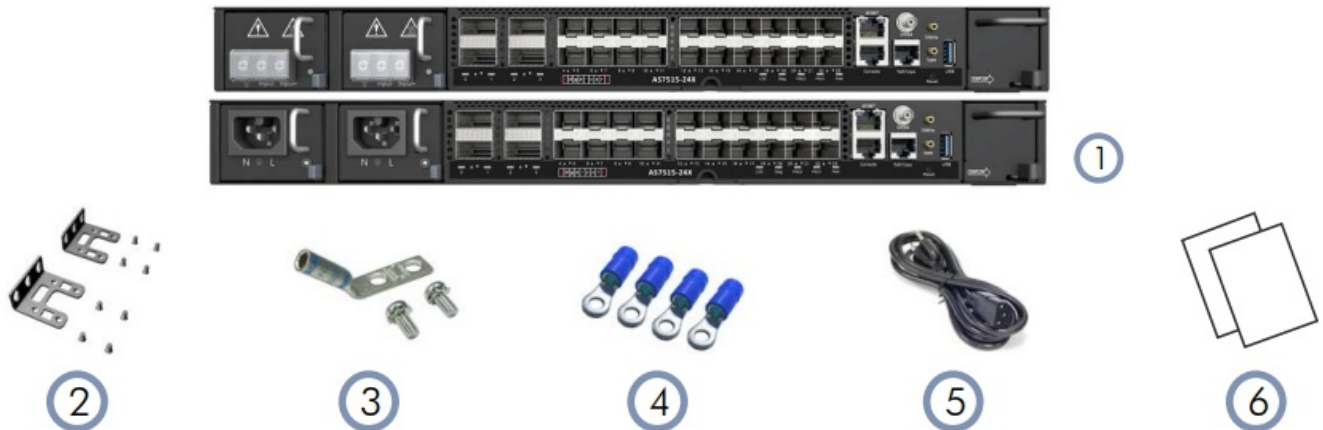
## FAQs

- **Q: What transceivers are supported in the SFP28 ports?**
  - A: The supported transceivers in the SFP28 ports are 25GBASE-SR, 25GBASE-LR, 10GBASE-SR, 10GBASE-LR, 10GBASE-ER, 10GBASE-ZR.
- **Q: What are the indications of the System LEDs?**

- A: The System LEDs indicate LOC (Blinking Blue for device locator), DIAG (Green for OK, Orange for fault detected), PSU1/2 (Green for OK, Amber for fault), FAN (Green for OK, Orange for fault).

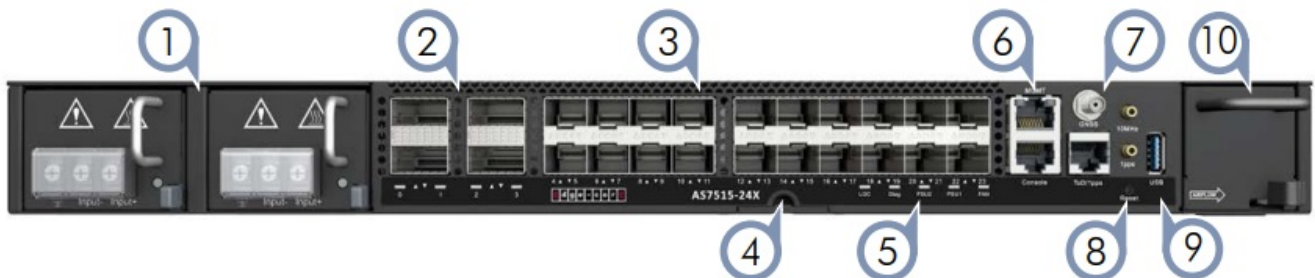
## Package Contents

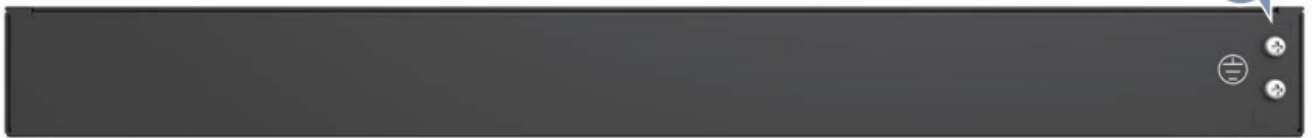
1. AS7515-24X (includes 2 PSUs and 1 fan tray)
2. Rack Mounting Kit—2 brackets and 8 screws
3. Grounding kit—grounding lug, 2 screws, and 2 washers
4. Ring lugs (x4) (included with DC PSUs only)
5. (Optional) AC power cord
6. Documentation—Quick Start Guide (this document) and Safety and Regulatory Information



## Overview

1. 2 x DC or AC PSUs
2. 4 x 100G QSFP28 ports
3. 20 x 25G SFP28 ports
4. Product tag
5. System LEDs
6. Management ports: 1000BASE-T RJ-45, RJ-45 console
7. Timing ports: GNSS, ToD/1PPS RJ-45, 10MHz, 1PPS
8. Reset button
9. USB storage port
10. Fan tray
11. Grounding screw





## Status LEDs

### 1. QSFP28 Port LEDs:

- Green — 100G
- Cyan — 50G
- Magenta — 40G
- Blue — 25G
- Yellow — 10G

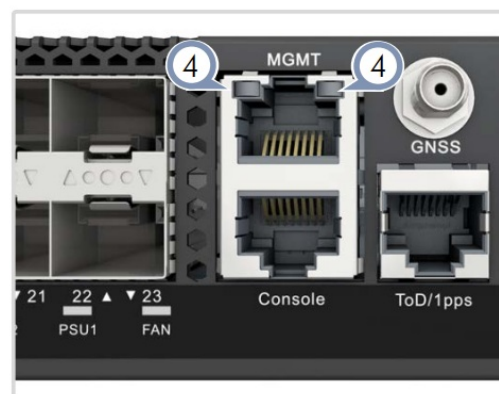
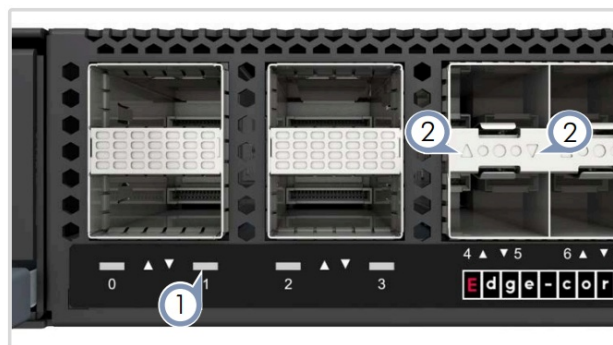
### 2. SFP28 Port LEDs:

- Blue — 25G
- Green — 10G
- Cyan — 1G

### 3. System LEDs:

- LOC — Blinking Blue (device locator)
- DIAG — Green (OK), Orange (fault detected)
- PSU1/2 — Green (OK), Amber (fault)
- FAN — Green (OK), Orange (fault)

### 4. RJ-45 Management Port LEDs: Left (link), Right (activity)



## FRU Replacement

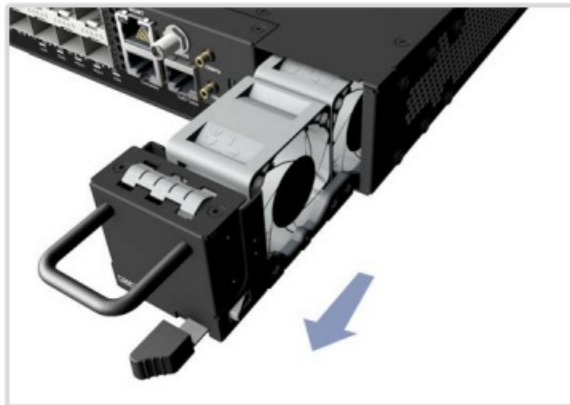
### PSU Replacement

1. Remove the power cord.
2. Press the release latch and remove the PSU.
3. Install replacement PSU.



### Fan Tray Replacement

1. Press the fan tray's release latch.
2. Pull out to remove the tray.
3. Install replacement tray with matching airflow direction.



### 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.

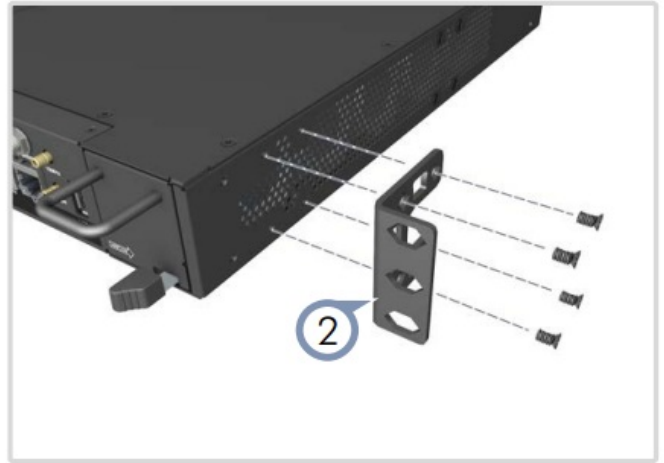
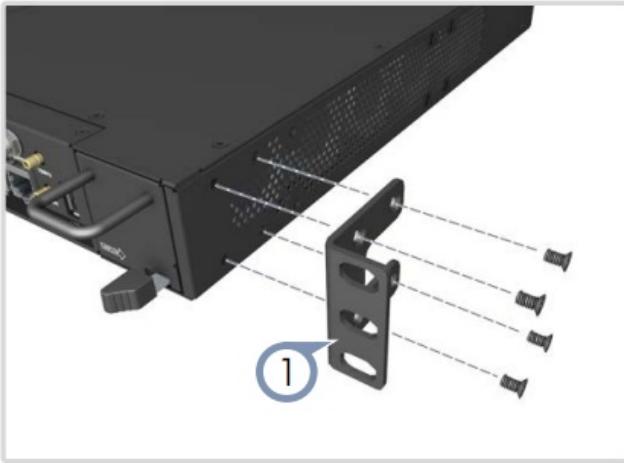
**Caution:** The device must be installed in a restricted-access location.

**Note:** The device has the Open Network Install Environment (ONIE) software installer preloaded, but no software image. Information about compatible software can be found at [www.edge-core.com](http://www.edge-core.com).

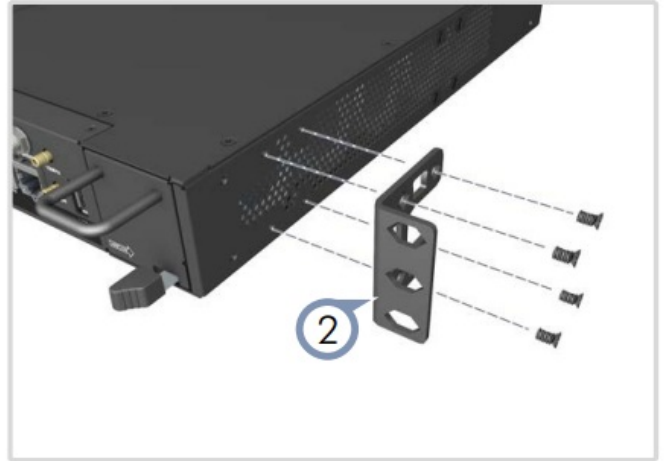
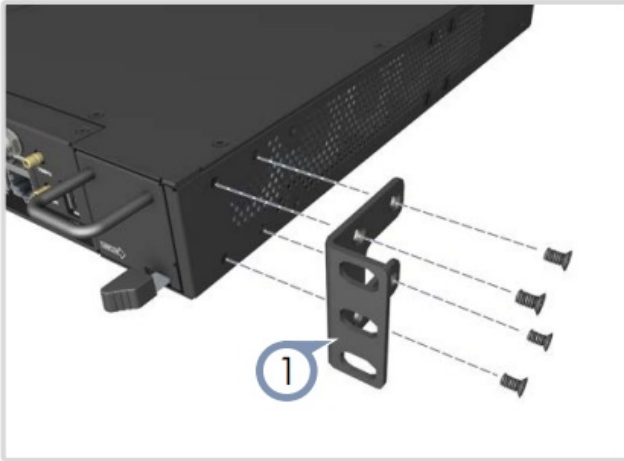
**Note:** The drawings in this document are for illustration only and may not match your particular model.

### Mount the Device in an EIA-310 Rack

1. For 300mm-deep rack: Using the four front screw holes, attach each of the brackets to the device with four of the included bracket screws.
2. For 280mm-deep rack: Using the four recessed screw holes, attach each of the brackets to the device with four of the included bracket screws.



3. Use the screws and cage/clip nuts supplied with the rack to secure the device in the rack.



## Ground the Device



## Verify Rack Ground

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).

## Attach Grounding Wire

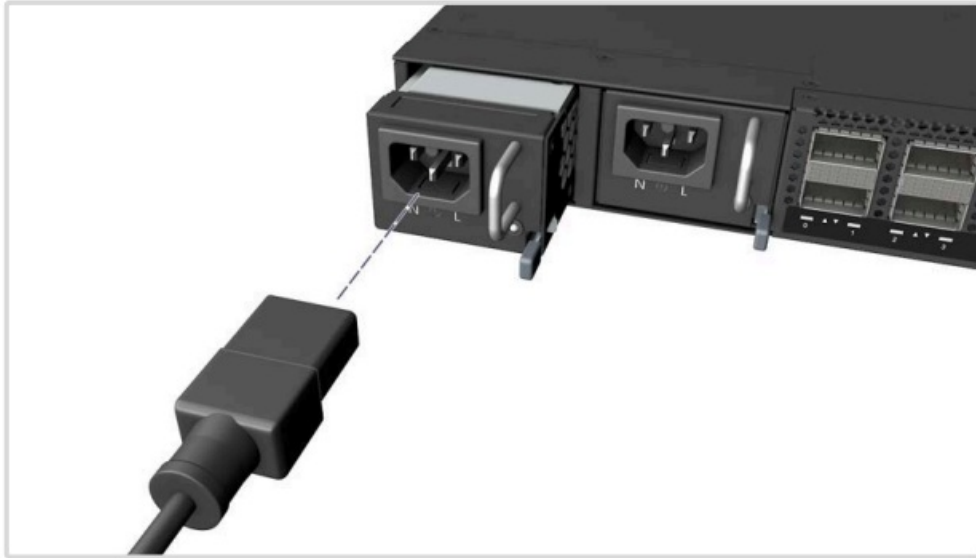
Attach the grounding wire (#6 AWG/16 mm<sup>2</sup>) to the grounding point on the device's rear panel or side panel. Then connect the other end of the wire to rack ground

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

## Connect Power

### • a. AC Power

- Install one or two AC PSUs in the device, if they are not already installed in the factory. Then connect an external AC power source to the PSUs.



### • b. DC Power

- Install one or two DC PSUs (part number CRXT-T0T12B only) in the device, if they are not already installed in the factory. Connect an external DC power source to the PSUs. Or, connect to a notolerance DC mains supply with a UL/CSA-approved circuit breaker rated at 16 A.

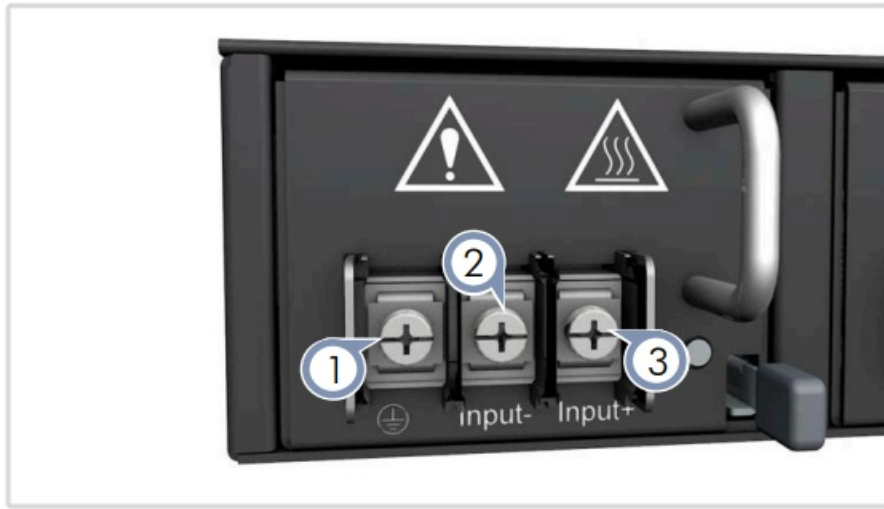


**Caution:** Before connecting power supply cables to the device, ensure that power to the feed lines is turned off at the supply circuit breaker or disconnected from the power bus

**Caution:** Use a UL/IEC/EN 60950-1 and/or 62368-1 certified power supply to connect to a DC converter, and a #14 AWG/1.5 mm<sup>2</sup> (for 36 VDC to 72 VDC PSU) wire to connect to a DC PSU.

**Caution:** All DC power connections should be performed by a qualified professional.



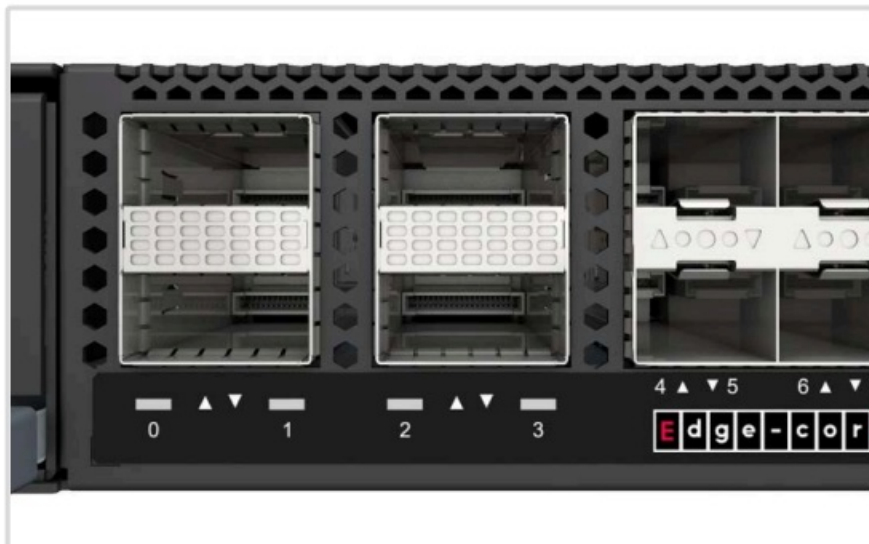


1. Connect the ground wire / protective earth.
2. Connect the 36 – 72 VDC wire.
3. Connect the DC return wire.

**Note:** It is suggested to use the following for DC power: One UL 1015 AWG#10-14 stranded wire, 2m maximum (36VDC-72VDC: Input+) One UL 1015 AWG#10-14 stranded wire, 2m maximum (VDC return: Input-) One UL 1015 AWG#10-14 stranded wire, 2m maximum, (green/yellow) green with yellow stripe (PE)

**Note:** The DC terminal screws should be tightened to a torque of 7 in-lbs maximum

### Make Network Connections



### QSFP28/SFP28 Ports

Install transceivers and then connect fiber optic cabling to the transceiver ports. Alternatively, connect AOC/DAC cables directly to the QSFP28/ SFP28 slots.

The following transceivers are supported in the QSFP28 ports:

- 100GBASE-SR4
- 100GBASE-LR4
- 100GBASE-ER4

The following transceivers are supported in the SFP28 ports:

- 25GBASE-SR
- 25GBASE-LR
- 10GBASE-SR
- 10GBASE-LR
- 10GBASE-ER
- 10GBASE-ZR

### Connect Timing Ports



- **GNSS Antenna**
  - Attach an external antenna to the GNSS antenna port for clock synchronization with GPS time.
- **RJ-45 ToD/1pps**
  - Use a Cat. 5e or better twisted-pair cable to connect the 1-pulse-per-second (1pps) and Time of Day (ToD) port to other synchronized devices.
- **10MHz/1pps**
  - Use coax cables to connect the 10 MHz and 1-pulse-per-second (1pps) ports to other synchronized devices.

### Make Management Connections

- **MGMT RJ-45 Port**
  - Connect Category 5, 5e or better twisted-pair cable.
- **RJ-45 Console Port**
  - Use the included RJ-45-to-DB-9 null-modem console cable to connect to a PC running terminal emulator software. Use a USB-to-male DB-9 adapter cable (not included) for connections to PCs that do not have a DB-9 serial port. Configure the serial connection: 115200 bps, 8 characters, no parity, one stop bit, 8



data bits, and no flow control. Console cable pinouts and wiring

Device's RJ-45 Console	Null Modem	PC's 9-Pin DTE Port
6 RXD (receive data)	<-----	3 TXD (transmit data)
3 TXD (transmit data)	----->	2 RXD (receive data)
4,5 SGND (signal ground)	-----	5 SGND (signal ground)

## Hardware Specifications

Size (WxDxH)	438.4 x 300 x 43.7 mm (17.26 x 11.81 x 1.72 in.)
Weight	5.42 kg (11.95 lb), with two installed PSUs
Temperature	Operating: -40° C to 65° C (-40° F to 149° F) Transportation: -40° C to 70° C (-40° F to 158° F) Storage: -40° C to 70° C (-40° F to 158° F)
Humidity	Operating: 5% to 95% (non-condensing)
System Input Rating	100–240 VAC, 50/60 Hz, 3.0–1.3 A 36 – 72 VDC, 8.4–4.2 A

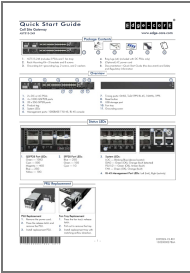
## Regulatory Compliances

Emissions	EN 55032, Class A EN 61000-3-2, Class A EN 61000-3-3 EN 300 386 EN 303413 ETSI EN 301489-1 ETSI EN 301489-19 FCC Title 47, Part 15, Subpart B, Class A VCCI-CISPR 32, Class A
Immunity	EN 55035 EN 55024 IEC 61000-4-2/3/4/5/6/8/11
Environmental	Storage: ■ ETSI EN 300 019-1-1 Class 1.1 ■ Temperature: -40° C to 70° C (-40° F to 158° F) Transportation: ■ ETSI EN 300 019-1-2 Class 2.3 ■ Temperature: -40° C to 70° C (-40° F to 158° F) Operating Conditions: ■ ETSI EN 300 019-1-3 Class 3.2 ■ Temperature: -40° C to 65° C (-40° F to 149° F) ■ Relative Humidity: 5% to 95%
Safety	UL (CSA 22.2 No 62368-1 & UL 62368-1) CB (IEC/EN 62368-1)

## MORE INFO

- [www.edge-core.com](http://www.edge-core.com)

# Documents / Resources

	<p><a href="#">Edge-core AS7515-24X Cell Site Gateway</a> [pdf] User Guide AS7515-24X, AS7515-24X Cell Site Gateway, Cell Site Gateway, Site Gateway, Gateway</p>
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## References

- [User Manual](#)

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