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EdgecorE AS9516-32D 32 Port 400G Ethernet Switch

EdgecorE AS9516-32D 32 Port 400G Ethernet Switch User Guide

Contents

Edge-corE ®

EdgecorE AS9516-32D 32 Port 400G Ethernet Switch

Product Information

Specifications

- Switch Chassis Size (WxDxH): 440 x 509 x 44 mm (17.32 x 20.04 x 1.73 inches)
- Weight: 11.35 kg (25.02 lb)
- Temperature: Operating: 10% to 90% (non-condensing)
- Airflow: Front-to-back airflow, 134 CFM at 100% fan speed
- Power Consumption: 1150 Watts maximum
- AC 1500W PSU AC Input

Overview

- Management ports: 1000BASE-T RJ-45, RJ-45 Console, USB
- System LEDs
- 32 x 400G QSFP-DD ports
- Port LED select button and status LEDs
- Grounding screw
- 2 x AC PSUs
- 6 x fan trays

System LEDs/Buttons

- System LEDs:
  - Left LED: Flashing Blue (default, can be defined by NOS)
  - Right LED: Green (default, can be defined by NOS)
- Reset Button
- Port Select Button: Selects LED display for upper or lower ports
- Upper/Lower Ports: Green (selected)

Port LEDs

- QSFP-DD LEDs:
  - 400G: 1 LED Blue
  - 200G Breakout: 1 LED White, 1-2 LEDs Green
  - 100G Breakout: 1-4 LEDs Green
  - 50G Breakout: 1 LED Cyan
- 1000BASE-T RJ-45 Mgmt LEDs:
  - Left LED: Off
  - Right LED: Green (link), Flashing (activity)

FRU Replacement
QSFP-DD LEDs

- 400G: 1 LED Blue

- 200G Breakout: 1 LED White, 1-2 LEDs Green
- 100G Breakout: 1-4 LEDs Green
- 50G Breakout: 1 LED Cyan

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. Press the handle release latch.
2. Remove fan tray from the chassis.
3. Install replacement fan with matching airflow direction.

Product Usage Instructions

Installation

Mount the Switch

1. Mount the switch in the rack and secure it with rack screws.
2. Lock the Rear-Post Brackets: Use the included screws to lock the position of the rear-post brackets.

Ground the Switch

1. Attach the Brackets: Use the included screws to attach the front- and rear-post brackets.
2. Verify Rack Ground: Ensure the rack on which the switch 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).
3. Attach Grounding Wire: Attach a lug (not provided) to a #14 AWG minimum grounding wire (not provided), and connect it to the grounding point on the switch rear panel. Then connect the other end of the wire to rack ground.

Connect Power
Make Management Connections:

- RJ-45 Console Port: Connect the included console cable and then configure the serial connection: 9600 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.
- 10/100/1000M RJ-45 Management Port: Connect Cat. 5e or better Ctwisted-pair cable.

Make Network Connections:

- QSFP-DD Ports: Install transceivers and then connect fiber optic cabling to the transceiver ports. Alternatively,

connect DAC or AOC cables directly to the QSFP-DD slots.

FAQ

Q: What is the size of the switch chassis?
The switch chassis has a size of 440 x 509 x 44 mm (17.32 x 20.04 x 1.73 inches).

Q: What is the maximum power consumption of the switch?
The switch has a maximum power consumption of 1150 Watts.

Q: How many fan trays are included in the package?
The package includes 6 fan trays.

Q: How do I replace a PSU?
To replace a PSU, follow these steps:

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

Q: How do I replace a fan tray?
To replace a fan tray, follow these steps:

1. Press the handle release latch.
2. Remove fan tray from the chassis.
3. Install replacement fan with matching airflow direction.

Quick Start Guide

**32-Port 400G Ethernet Switch**
AS9516-32D

Package Contents

1. AS9516-32D switch
2. Rack mounting kit—2 front-post brackets, 2 rear-post brackets, 1 left and 1 right rear-post brackets ears, 20 screws, and 2 ear-locking screws
3. Power cord (x2)—either Japan, US, Continental Europe, UK or China
4. Documentation—Quick Start Guide (this document) and Safety and Regulatory Information

Overview

1. Management ports: 1000BASE-T RJ-45, RJ-45 Console, USB

2. System LEDs

3. 32 x 400G QSFP-DD ports

4. Port LED select button and status LEDs

5. Grounding screw

6. 2 x AC PSUs

7. 6 x fan trays
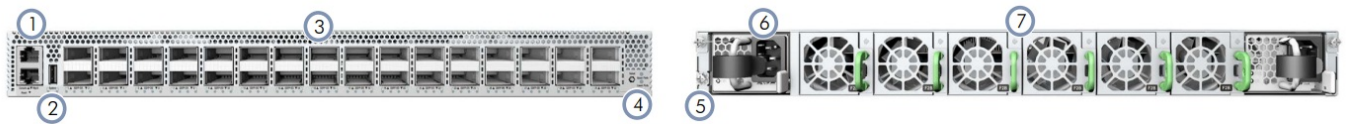
System LEDs/Buttons

Port LEDs

- System (Left): Flashing Blue (default, can be defined by NOS)
- System (Right): Green (default, can be defined by NOS)
- Reset Button
- Port Select Button: Selects LED display for upper or lower ports
- Upper/Lower Ports: Green (selected)
- **QSFP-DD LEDs**
  - 400G: 1 LED Blue
  - 200G Breakout: 1 LED White, 1-2
  - LEDs Green
  - 100G Breakout: 1-4 LEDs Green
  - 50G Breakout: 1 LED Cyan
  - 1000BASE-T RJ-45 Mgmt LEDs
  - Left: Off
  - Right: Green (link), Flashing (activity)
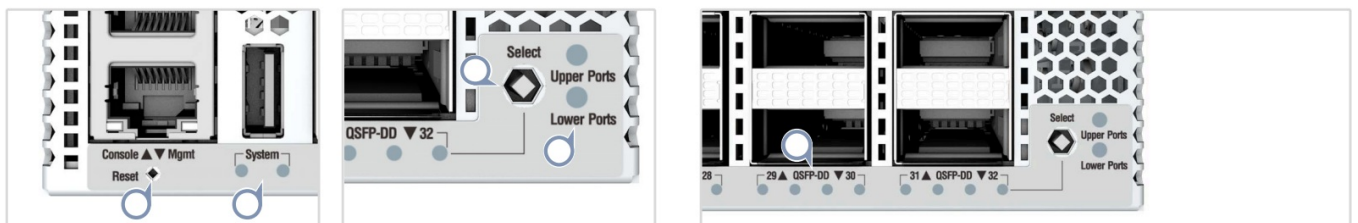
FRU Replacement

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. Press the handle release latch.
2. Remove fan tray from the chassis.
3. Install replacement fan 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: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the manufacturer's instructions.
**Caution:** The switch includes plug-in power supply (PSU) and fan tray modules that are installed into its chassis. Make sure all installed modules have a matching airflow direction (front-to-back or back-to-front).
Note: The switch 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: The drawings in this document are for illustration only and may not match your particular model.
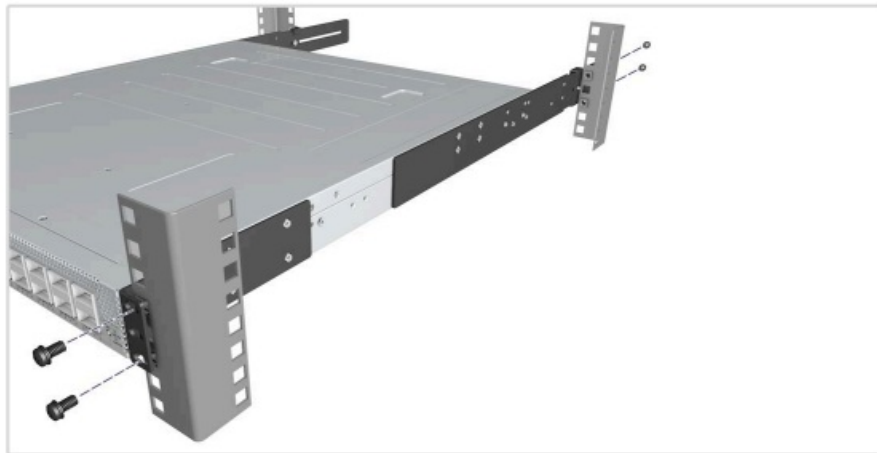
Mount the Switch

Caution: This device must be installed in a telecommunications room or a server room.
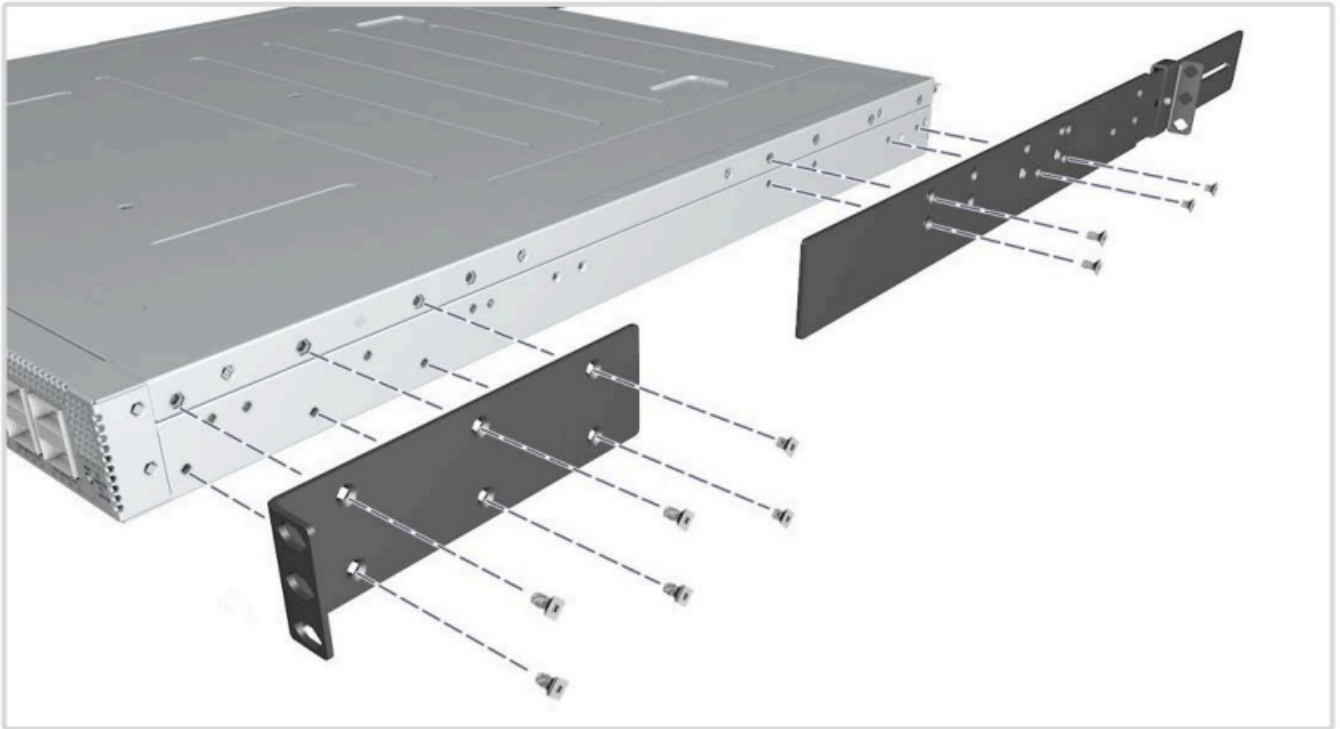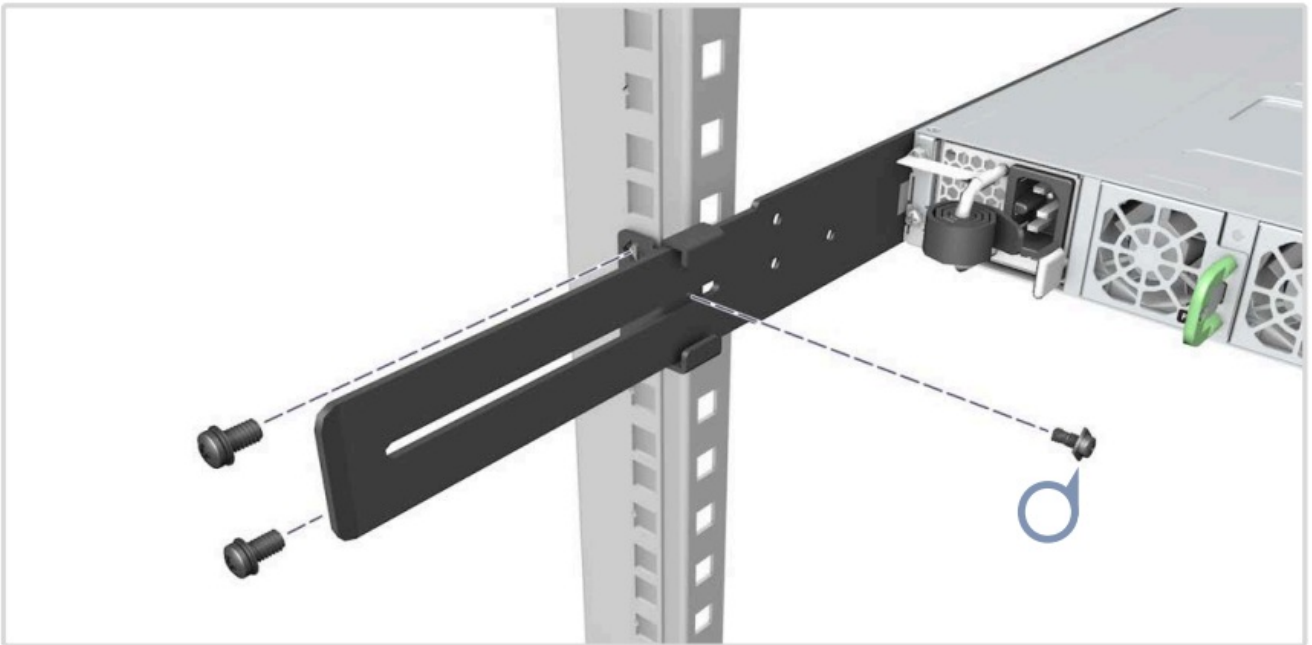
1. **Attach the Brackets**

   Use the included screws to attach the front- and rear-post brackets.
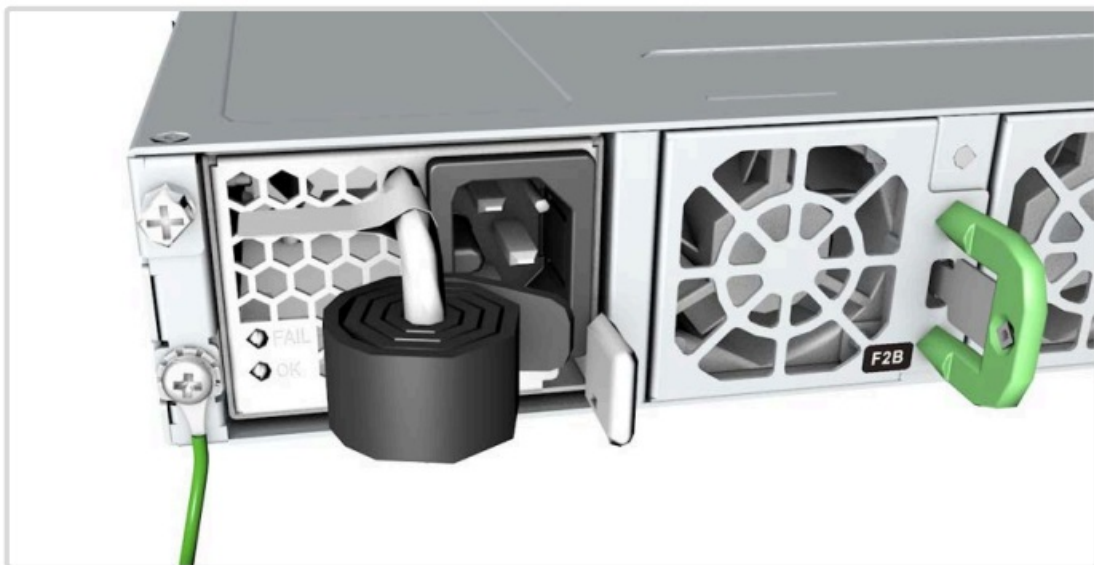

2. **Mount the Switch**

   Mount the switch in the rack and secure it with rack screws.

3. **Lock the Rear-Post Brackets**

   Use the included screws to lock the position of the rear-post brackets.

Ground the Switch

Verify Rack Ground

Ensure the rack on which the switch 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).

Attach Grounding Wire

Attach a lug (not provided) to a #14 AWG minimum grounding wire (not provided), and connect it to the grounding point on the switch rear panel. Then connect the other end of the wire to rack ground.

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

Caution: It should have a separate protective ground terminal on the chassis that must be permanently connected to a well grounded chassis or frame to adequately ground the device chassis and protect the operator from electrical hazards.
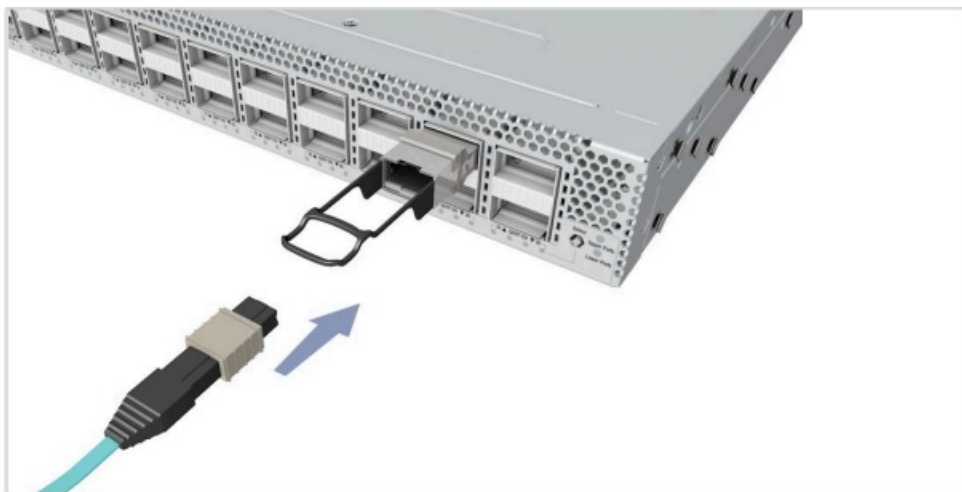
Connect Power
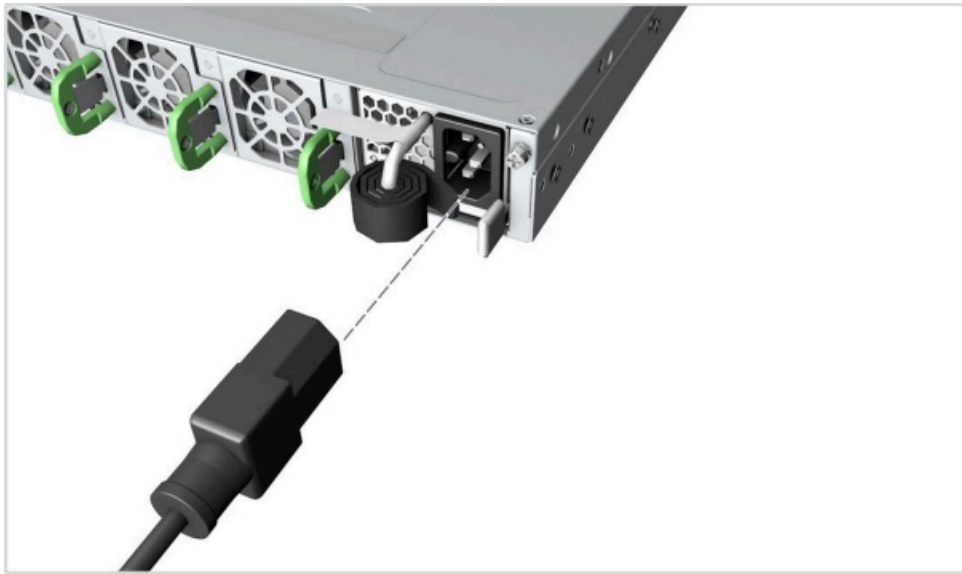
Install two PSUs and connect them to an AC power source.

Caution: Use the AC power cord supplied with the switch. For International use, you may need to change the AC line cord. You must use line cord sets that have been approved for the socket type in your country.
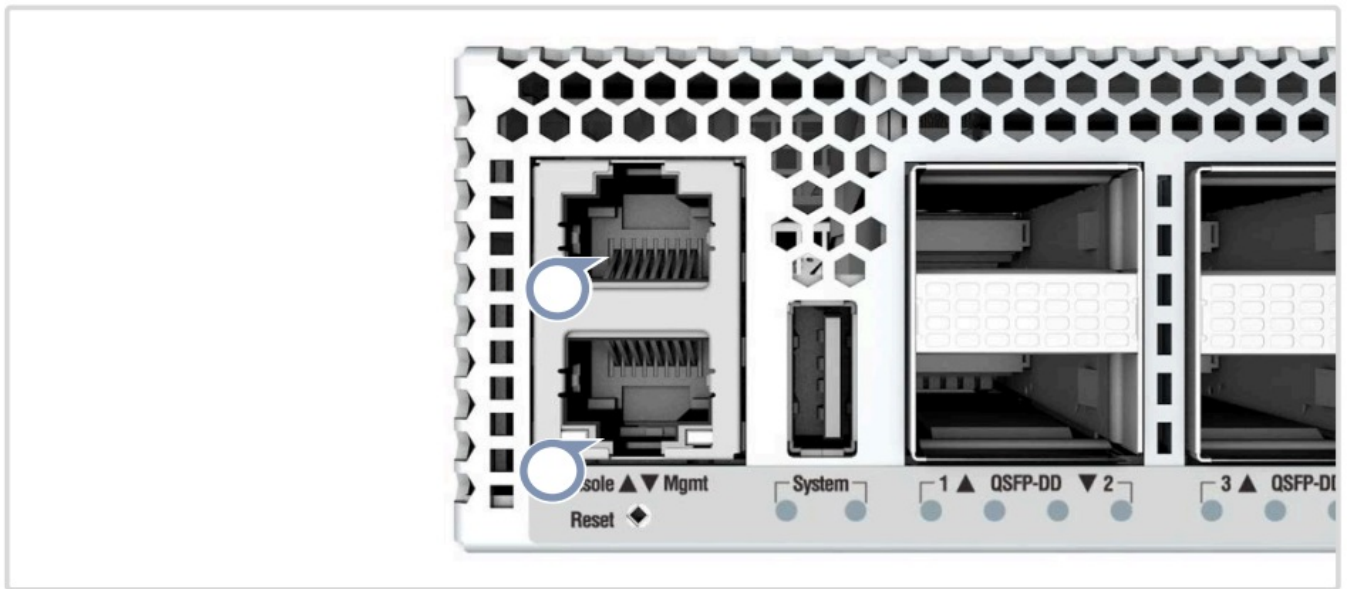
Make Network Connections

QSFP-DD Ports
Install transceivers and then connect fiber optic cabling to the transceiver ports.
Alternatively, connect DAC or AOC cables directly to the QSFP-DD slots.

Make Management Connections

RJ-45 Console Port
Connect the included console cable and then configure the serial connection: 9600 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.

10/100/1000M RJ-45 Management Port
Connect Cat. 5e or better twisted-pair cable.

Hardware Specifications

Switch Chassis

Size (WxDxH)	440 x 509 x 44 mm (17.32 x 20.04 x 1.73 inches)
Weight	11.35 kg (25.02 lb)
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: 10% to 90% (non-condensing)
Airflow	Front-to-back airflow 134 CFM at 100% fan speed
Power Consumption	1150 Watts maximum

AC 1500W PSU

AC Input	100–240 VAC, 50/60 Hz, 12–7 A

Regulatory Compliances
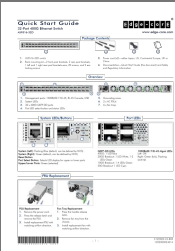
Emissions	EN 55032:2015+A11:2020, Class A
	EN 61000-3-2:2014, Class A
	EN 61000-3-3:2013
	EN 300 386 V2.1.1 (2016-07)
	FCC Class A
	VCCI Class A
	CISPR 32:2015
	AS/NZS CISPR 32:2015+AMD 1: 2020 Class A
	KCC
	BSMI Class A, CNS 13438
Immunity	EN 55024:2010+A1:2015
	EN 55035:2017
	IEC 61000-4-2/3/4/5/6/8/11
Safety	CAN/CSA C22.2 No. 62368-1 & UL 62368-1
	IEC/EN 62368-1 & IEC/EN 60950-1
	BSMI, CNS 14336-1
Taiwan RoHS	CNS 15663
China RoHS	SJ/T 113(EU) 2015/86364-2014
EU RoHS	Directive 2011/65/EU, (EU) 2015/863

www.edge-core.com

Documents / Resources

EdgecorE AS9516-32D 32 Port 400G Ethernet Switch [pdf] User Guide
AS9516-32D 32 Port 400G Ethernet Switch, AS9516-32D, 32 Port 400G Ethernet Switch, 400G Ethernet Switch, Ethernet Switch, Switch

References

- CoreComm | Internet & Web Hosting Solutions
- Edgecore Networks – Edgecore Networks, a leading provider of traditional and open network solutions, delivers wired and wireless networking products and solutions through channel partners and system integrators worldwide for data center, service provider,
- User Manual