

Edgecore Networks AS7326-56X

Edge-Core Networks AS7326-56X Switch User Manual

Model: AS7326-56X

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1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Edge-Core Networks AS7326-56X switch. The AS7326-56X is a high-performance network switch designed for data center and enterprise environments, featuring 48 x 25 Gigabit Ethernet SFP28 ports and 8 x 100 Gigabit Ethernet QSFP+ uplink ports. It supports the Open Network Install Environment (ONIE) for flexible operating system deployment.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the equipment:

- Ensure proper grounding of the device before connecting power.
- Use only the power cord supplied with the unit or a certified equivalent.
- Do not operate the switch in environments with excessive moisture or extreme temperatures.
- Avoid blocking ventilation openings to prevent overheating.
- Disconnect all power before performing any maintenance or installation procedures.
- Only qualified personnel should install and service this equipment.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Edge-Core Networks AS7326-56X Switch Unit
- AC Power Cord(s)
- Rack Mounting Kit (brackets, screws)
- Console Cable (RJ-45 to DB-9)
- Documentation (Quick Start Guide, Safety Information)

4. PHYSICAL DESCRIPTION

The AS7326-56X switch features a standard 1U rack-mountable form factor. The rear panel provides access to power inputs, fan modules, and network ports.



Figure 1: Rear view of the Edge-Core Networks AS7326-56X switch. This image displays the back panel of the switch, featuring two power supply units on the left and right sides, each with an orange handle. In the center, there are multiple fan modules, also with orange handles, arranged horizontally. Between the power supplies and fan modules, and to the right of the fan modules, are the various network port interfaces, including 48 x 25G SFP28 ports and 8 x 100G QSFP+ uplink ports, designed for high-speed network connectivity.

4.1. Front Panel

The front panel typically includes status LEDs for power, system, and individual port activity. Specific LED indicators and their meanings are detailed in the LED Status section.

4.2. Rear Panel

The rear panel (as shown in Figure 1) houses the following components:

- **Power Supply Units (PSUs):** Redundant, hot-swappable AC power supply modules.
- **Fan Modules:** Hot-swappable fan modules for cooling.
- **48 x 25G SFP28 Ports:** For high-speed server and access layer connectivity.
- **8 x 100G QSFP+ Uplink Ports:** For high-bandwidth uplinks to core network devices.
- **Console Port:** RJ-45 serial port for local management access.
- **Management Port:** RJ-45 Ethernet port for out-of-band management.
- **USB Port:** For software upgrades or configuration backup/restore.

5. SETUP

5.1. Rack Mounting

1. Attach the provided rack-mount brackets to the sides of the switch using the included screws.
2. Secure the switch into a standard 19-inch equipment rack using appropriate rack screws. Ensure adequate space for airflow around the unit.

5.2. Power Connection

1. Connect the AC power cord(s) to the power input receptacles on the rear panel of the switch.
2. Plug the other end of the power cord(s) into a grounded AC power outlet.
3. The switch will power on automatically once connected to power.

5.3. Network Connections

- **SFP28 Ports:** Insert compatible 25G SFP28 transceivers into the 48 SFP28 ports and connect fiber optic cables to your network devices.
- **QSFP+ Ports:** Insert compatible 100G QSFP+ transceivers into the 8 QSFP+ ports and connect fiber optic cables for uplink connections.

5.4. Initial Configuration Access

1. Connect a computer to the console port using the provided RJ-45 to DB-9 console cable.
2. Configure your terminal emulation software (e.g., PuTTY, Tera Term) with the following settings: 115200 baud, 8 data bits, no parity, 1 stop bit, no flow control.
3. Power on the switch. The boot process will display on the console.
4. Alternatively, connect an Ethernet cable from your management workstation to the dedicated management port and configure an IP address within the same subnet as the switch's default management IP (if applicable).

6. OPERATING INSTRUCTIONS

6.1. Power On and Boot Sequence

Upon connecting power, the switch will initiate its boot sequence. Observe the system LEDs for status indications. The ONIE (Open Network Install Environment) will load, allowing for the installation of a network operating system (NOS).

6.2. LED Status Indicators

Refer to the following table for common LED indicators:

LED	Color/State	Description
System	Green (Solid)	System is operating normally.
System	Amber (Solid)	System fault or warning.
Power	Green (Solid)	Power supply is active.
Link/Activity	Green (Solid)	Port link established.
Link/Activity	Green (Flashing)	Port activity.

6.3. ONIE and Network Operating System (NOS)

The AS7326-56X ships with ONIE pre-installed. ONIE is a small operating system that provides an environment for installing other network operating systems. To install a NOS:

1. Access the ONIE prompt via the console port.
2. Follow the specific instructions provided by your chosen NOS vendor for installation via ONIE (e.g., using HTTP, FTP, or local USB).
3. Once the NOS is installed, the switch will reboot into the new operating system.

7. MAINTENANCE

7.1. Cleaning

Periodically clean the exterior of the switch with a soft, dry cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid or aerosol cleaners directly on the unit.

7.2. Firmware and Software Updates

Regularly check the Edge-Core Networks support website or your NOS vendor's website for the latest firmware and software updates. Follow the provided instructions for updating to ensure optimal performance and security.

7.3. Fan and Power Supply Replacement

The fan modules and power supply units are hot-swappable. To replace a module:

1. Grasp the handle of the module to be replaced.
2. Gently pull the module straight out of its bay.
3. Insert the new module into the empty bay, ensuring it is fully seated.

8. TROUBLESHOOTING

8.1. No Power

- Verify that the power cord(s) are securely connected to both the switch and the power outlet.
- Ensure the power outlet is functional by testing it with another device.
- Check the power supply unit LEDs. If off, the PSU may be faulty or not receiving power.

8.2. No Link on Port

- Check the cable connection between the switch port and the connected device.
- Ensure the correct transceiver type (SFP28/QSFP+) is used and properly seated.
- Verify that the connected device is powered on and its port is active.
- Check the port configuration on both the switch and the connected device (speed, duplex, VLANs).

8.3. Console Access Issues

- Confirm the console cable is correctly connected.
- Verify the terminal emulation software settings (115200 baud, 8 data bits, no parity, 1 stop bit, no flow control).
- Try a different console cable or USB-to-serial adapter.

9. SPECIFICATIONS

Feature	Description
Model	AS7326-56X
Ports	48 x 25G SFP28, 8 x 100G QSFP+
Dimensions (LxWxH)	18 x 19 x 2 inches
Weight	21 lbs
Interface Type	SFP, SFP+
Compatible Devices	Desktop (Note: Primarily designed for rackmount environments)
Manufacturer	Edge-Core Networks
UPC	662698610482
First Available	October 1, 2019

10. WARRANTY INFORMATION

The Edge-Core Networks AS7326-56X switch comes with a **3-year warranty** from the date of purchase. This warranty covers

defects in materials and workmanship under normal use. For detailed warranty terms and conditions, please refer to the official Edge-Core Networks warranty policy available on their website or contact their support team.

11. TECHNICAL SUPPORT

For technical assistance, product inquiries, or to report issues, please contact Edge-Core Networks technical support. Before contacting support, ensure you have the product model number (AS7326-56X) and serial number readily available. Visit the official Edge-Core Networks website for support resources, FAQs, and contact information: www.edge-core.com