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Arista Networks DCS-7050S-52-R

Arista Networks DCS-7050S-52-R 7050 Series Switch User Manual

Model: **DCS-7050S-52-R**

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Arista Networks DCS-7050S-52-R 7050 Series Switch. This high-performance switch features 52 SFP+ ports, rear-to-front airflow, and dual 460W AC power supplies, designed for demanding network environments. Please read this manual thoroughly before attempting to install or operate the device. Retain this manual for future reference.

Safety Information

Always observe standard safety precautions when working with electrical equipment. Ensure proper grounding and ventilation. Only qualified personnel should perform installation and maintenance procedures. Disconnect power before servicing.

2. SETUP AND INSTALLATION

2.1 Unpacking the Switch

Carefully remove the switch and all accessories from the packaging. Verify that all components listed in the packing list are present and undamaged. Report any missing or damaged items to your supplier immediately.

2.2 Physical Installation

The DCS-7050S-52-R switch is designed for rack mounting. Ensure the rack is stable and properly grounded. This model features **rear-to-front airflow**, meaning cool air enters from the rear of the chassis and exits through the front. Ensure adequate clearance for airflow at both the front and rear of the switch.



Figure 1: Front view of the Arista Networks DCS-7050S-52-R switch, showing the SFP+ ports and status indicators. This image illustrates the port layout and general appearance of the device.

2.3 Power Connection

The switch is equipped with dual 460W AC power supplies for redundancy. Connect the provided **2XC13-C14 power cords** to the AC inlets on the rear of the switch and then to separate, grounded AC power sources. It is recommended to connect to different power circuits for maximum redundancy.

- Ensure power sources match the switch's input voltage requirements.
- Connect both power supplies for redundant operation.

2.4 Network Connections

The DCS-7050S-52-R features **52 SFP+ ports**. Insert compatible SFP+ transceivers into the desired ports. Connect appropriate fiber optic or direct attach copper (DAC) cables to the transceivers. Ensure proper cable management to avoid strain on the ports.

2.5 Initial Power-On

After all physical connections are made, power on the switch. Observe the system status LEDs for initial boot-up sequence. Refer to the LED indicators section for status interpretation.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

To power on, ensure power cords are connected. The switch will automatically power on. To power off, disconnect both power cords from their sources. For graceful shutdown, it is recommended to use the operating system commands before disconnecting power.

3.2 Management Interface Access

The switch can be managed via a console port (RJ-45), out-of-band management (OOB) Ethernet port, or in-band management through one of the SFP+ data ports. Connect a console cable to the console port and use a terminal emulator (e.g., PuTTY, Tera Term) with settings: 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control.

3.3 Arista EOS Overview

The Arista DCS-7050S-52-R runs Arista EOS (Extensible Operating System). EOS provides a command-line interface (CLI) for configuration and monitoring. For detailed configuration instructions, refer to the official Arista EOS documentation available on the Arista Networks website.

3.4 SFP+ Port Operation

The 52 SFP+ ports support 10 Gigabit Ethernet connectivity. Ensure that compatible SFP+ transceivers are used for the desired link type (e.g., SR, LR, DAC). Port status LEDs indicate link activity and speed.

4. MAINTENANCE

4.1 Cleaning

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

4.2 Firmware Updates

Regularly check the Arista Networks support website for the latest EOS firmware updates. Follow the provided instructions for safe and effective firmware upgrades to ensure optimal performance and security.

4.3 Component Replacement

The DCS-7050S-52-R is designed with hot-swappable components such as fan trays and power supplies. Refer to the Arista Networks hardware guide for specific instructions on replacing these components while the switch is operational.

5. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For more complex problems, consult the Arista Networks support resources.

5.1 LED Indicators

Observe the status LEDs on the front panel for diagnostic information:

- **System LED:** Indicates overall system health (e.g., green for normal, amber for warning, red for critical).
- **Power Supply LEDs:** Indicate the status of each power supply.
- **Fan LEDs:** Indicate the status of the fan trays.
- **Port LEDs:** Indicate link status and activity for each SFP+ port.

Refer to the Arista Networks documentation for a detailed explanation of all LED states.

5.2 Common Issues

- **No Power:** Verify power cord connections, power source, and power supply LEDs.
- **No Link on Port:** Check transceiver compatibility, cable integrity, and connection to the peer device. Verify port configuration.
- **System Malfunction:** Check system LED. If red, consult logs via console or management interface.

5.3 Reset Procedures

A system reboot can often resolve minor issues. Use the appropriate EOS command for a graceful reboot. In cases where the system is unresponsive, a hard power cycle (disconnecting and reconnecting power) may be necessary, but this should be a last resort.

6. SPECIFICATIONS

Feature	Description
Model Number	DCS-7050S-52-R
Manufacturer	Arista
Interface Type	SFP+
Number of Ports	52
Airflow Direction	Rear to Front
Power Supplies	Dual 460W AC
Product Dimensions	1 x 1 x 1 inches
Item Weight	2 pounds
Upper Temperature Rating	40 Degrees Celsius
Case Material	Metal

7. WARRANTY INFORMATION

This Arista Networks product is covered by a standard manufacturer's warranty. For detailed information regarding warranty terms, conditions, and duration, please refer to the warranty statement provided with your purchase or visit the official Arista Networks website. Keep your proof of purchase for warranty claims.

8. TECHNICAL SUPPORT

For technical assistance, product documentation, and software downloads, please visit the Arista Networks support portal. You can find comprehensive resources, FAQs, and contact information for their technical support team.

- **Arista Networks Website:** www.arista.com
- **Support Portal:** Refer to the Arista website for specific support contact details and online resources.