

ARISTA

7100 Series Data Center Switches **Quick Start Guide**

Switches covered by this guide:

DCS-7120T-4S	DCS-7048T
DCS-7140T-4S	DCS-7124S
DCS-7148SX	DCS-7148S

Chapter 1 – Getting Started

Step 1

Unpack and remove the device and the accessories from the shipping box. Please inspect the items for any shipping damage.

All illustrations apply to each Arista switch covered by this guide unless stated otherwise.

Step 2

Review the hardware installation and safety instructions that appear in this guide. The switch supports 100-127V or 200-240V AC inputs at 50 or 60 Hz. You can connect to either AC power source.

Step 3

Identify the serial console and management Ethernet ports and understand cabling needs. You only need to connect one of the management Ethernet ports – the second port provides redundancy. The serial console and management Ethernet ports are shown below (Figure 1-1 and Figure 1-2).

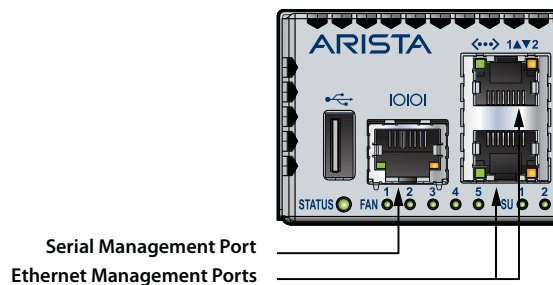


Figure 1-1: 7100S Management Connections

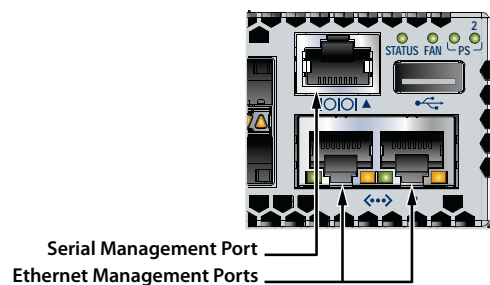


Figure 1-2: 7100T/7000T Management Connections

Chapter 1 – Getting Started

Step 4

Access the switch through the console. The accessory kit includes an RJ-45 to DB-9 adapter cable.

The default console speed is 9600 baud. *The default login username is 'admin' with no password set.*

The PC or Terminal Server should have the following settings:

•9600 baud	•1 stop bit	•8 data bits
•No flow control	•No parity bits	

Step 5 (optional)

Configure the switch for ssh access through the Management Port. **User input is in bold.**

```
Arista EOS
localhost login: admin
Last login: Fri Dec 14 13:17:13 on console
```

Enter privileged Exec Mode.

```
localhost>enable
```

Enter Global Configuration Mode.

```
localhost#configure terminal
```

Configure one of the management interfaces to acquire an IP address using DHCP.

```
localhost (config) #interface management 1
localhost (config-if) #ip address 192.0.2.8/24
(replace with the IP address assigned to the switch)
```

Exit the configuration mode.

```
localhost (config-if) #end
```

Save your config.

```
localhost#copy running-config startup-config
```

Alternate command to configure a static IP address for Management Port:

```
localhost (config-if) #ip address 192.0.2.8 255.255.255.0
```

Once the IP address for the management port has been configured, you can connect from a host as shown below:

```
ssh admin@192.0.2.8 (replace with the IP address assigned to the switch)
```

Chapter 1 – Getting Started

Step 6 (optional)

Other configuration changes you may want to consider:

- `hostname switch.example.com`
- `ip name-server 192.0.2.1`
- `ip domain-name example.com`
- `clock timezone America/Los_Angeles`
- `interface management 2`
 - `ip address 192.0.2.9/24`
- `ntp server ntp.example.com`

Please refer to the Arista Command Reference for a description of all supported commands.

MTU Configuration

The default MTU configuration is 9216 bytes on all interfaces supporting jumbo packets by default.

Chapter 2 – Important Safety Instructions

The following safety instructions and warnings apply to the installation and operation of this product.

- Statement 1001 –** Read the installation instructions before connecting the system to the power source.
- Statement 1002 –** To prevent the switch from overheating, do not operate it in an area with the ambient temperature higher than 104°F (40°C).
- Statement 1005 –** Installation of this equipment must comply with local and national electrical codes. If necessary, please consult with the appropriate regulatory agencies and inspection authorities to ensure compliance.
- Statement 1007 –** Do not physically stack units on any other equipment.
- Statement 1009 –** Never lift the chassis using handles on modules.
- Statement 1010 –** This equipment must be grounded. Never defeat the ground conductor.
- Statement 1012 –** When installing this equipment, connect the ground conductor first.
- Statement 1015 –** This unit may have more than one power supply connection. All power connections must be removed to de-energize the unit.
- Statement 1020 –** The power input plug-socket combination must be accessible at all times because it serves as the main disconnecting device.
- Statement 1025 –** This unit requires overcurrent protection.
- Statement 1030 –** Only qualified personnel should install, service or replace this equipment.
- Statement 1035 –** No user serviceable parts inside. Refer all servicing to qualified service personnel.
- Statement 1040 –** Ultimate disposal of this product should be handled according to all national laws and regulations.
- Statement 1050 –** Class 1 Laser Product: This product has provisions to install Class 1 laser transceivers that provides optical coupling to the communication network. Once a Class 1 laser product is installed, the equipment is a Class 1 Laser Product (Appareil à Laser de Classe 1). The customer is responsible for selecting and installing the Class 1 laser transceiver and for insuring that the Class 1 AEL (Allowable Emission Limit) per EN/IEC 60825, CSA E60825-1, and Code of Federal Regulations 21 CFR 1040 is not exceeded after the laser transceiver have been installed. Do not install laser products whose class rating is greater than 1. Refer to all safety instructions that accompanied the transceiver prior to installation. Only Class 1 laser devices, certified for use in the country of installation by the cognizant agency are to be utilized in this product.
- Statement 1055 –** Do not stare into the laser beam.

Chapter 3 – Rack Mounting

Before you begin, verify that the following guidelines are met:

- Clearance areas to the front and rear panels allow for unrestricted cabling
- All front panel indicators can be easily read
- The AC power cord can reach from the AC power outlet to the connector on the switch rear panel
- Airflow around the switch and through the switch is unrestricted

2-Post Rack Mount

Use four #8 Philips flat head screws to attach the long side of the bracket to the switch in one of the three mounting positions (front-mounting, mid-mounting, or rear-mounting).

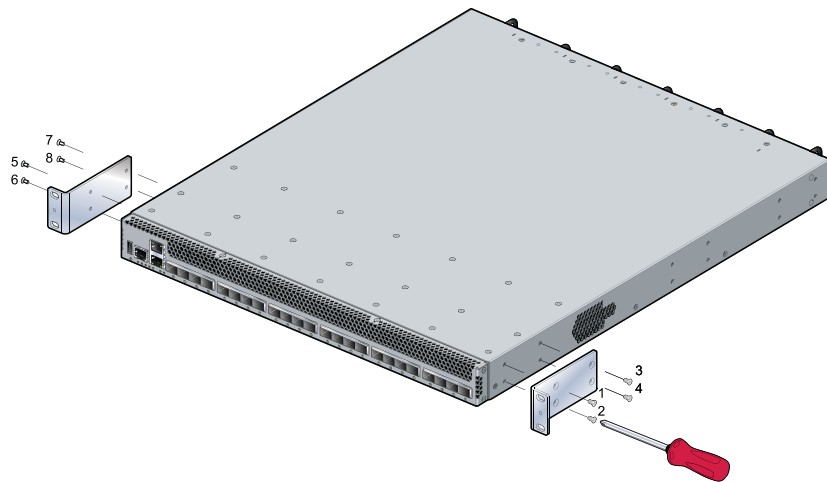


Figure 3-1: Front-Mounting Position

Chapter 3 – Rack Mounting

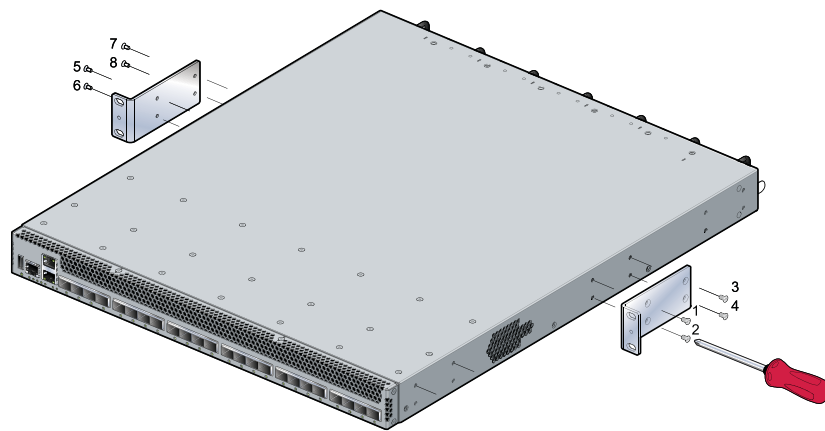


Figure 3-2: Mid-Mounting Position

Rear Mounting

For the rear-mounting position, you can attach the mounting brackets to the rear of the switch. Next, use the mounting screws needed for your rack to attach the brackets to the rack.

Chapter 3 – Rack Mounting

4-Post Rack Mount

Some racks may not be suited for a 2-post mount. If that is the case, you should use the 4-post mounting kit included with the switch.

The mounting procedure is shown below:

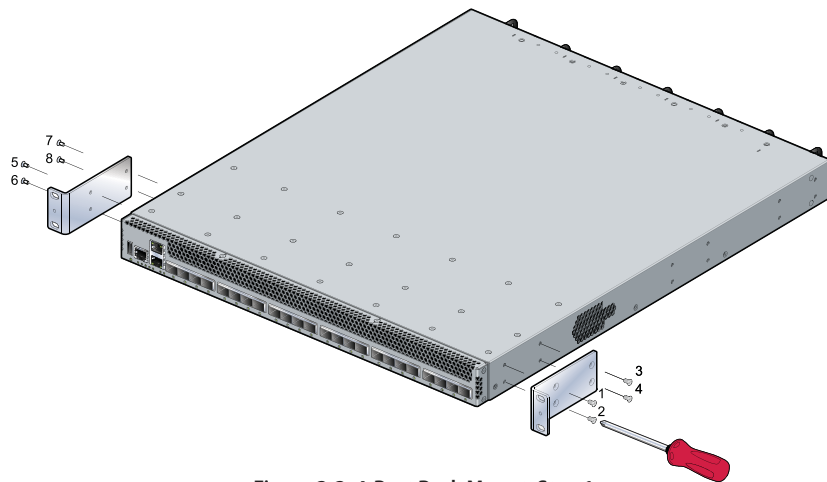


Figure 3-3: 4-Post Rack Mount: Step 1

Chapter 3 – Rack Mounting

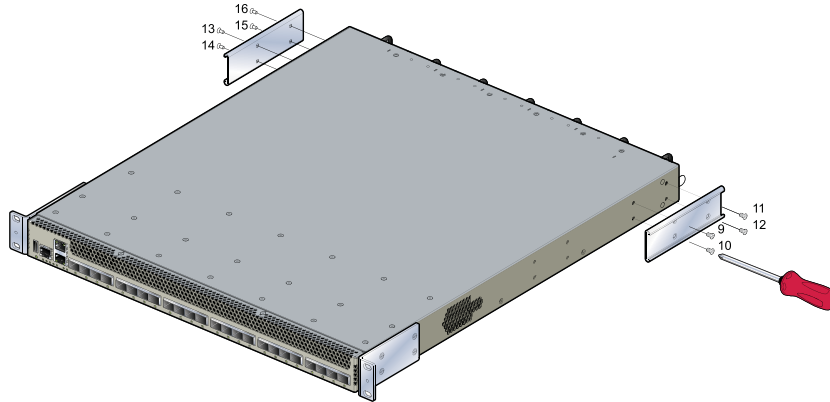


Figure 3-4: 4-Post Rack Mount: Step 2

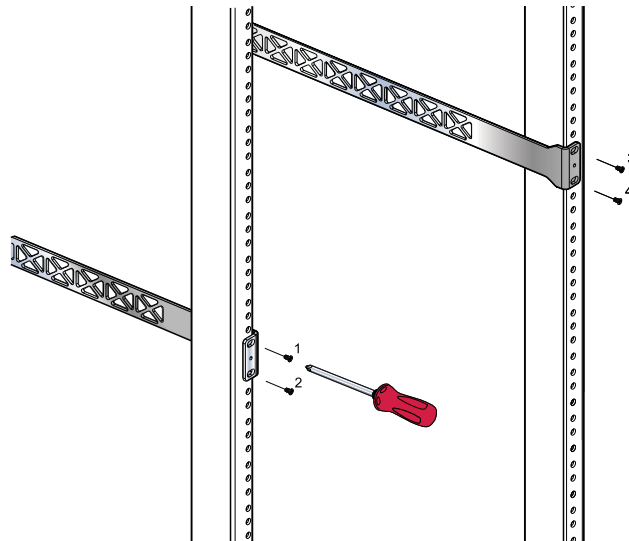


Figure 3-5: 4-Post Rack Mount: Step 3

Chapter 3 – Rack Mounting

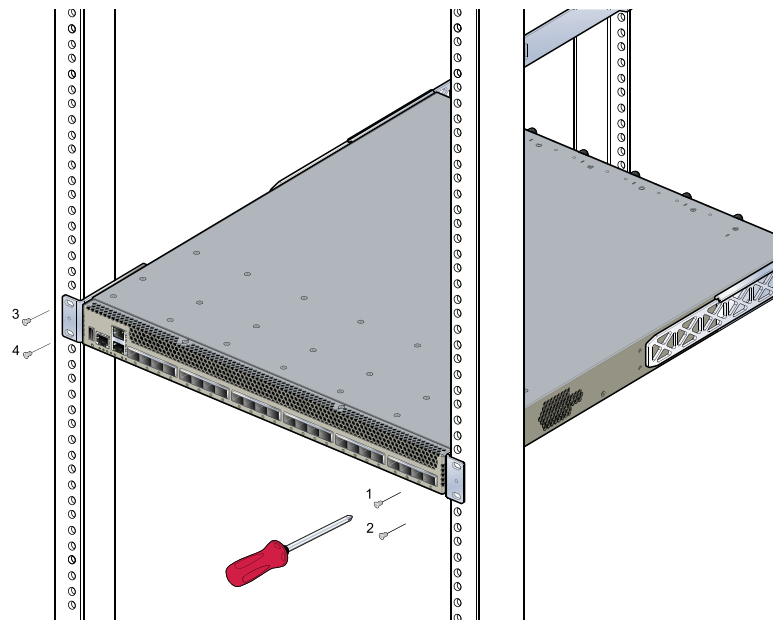


Figure 3-6: 4-Post Rack Mount: Step 4

Chapter 4 – Status Indicators

Front Panel System Status Indicators

System Status LED

Indicator	Status
Blinking Green	System powering up.
Green	All power supplies and fans are good.
Red	A power supply or fan is missing or in a failed state.

Fan Tray Status LED

Indicator	Status
Off	Fan inserted, but status is unknown.
Green	Fan is good.
Red	Fan not inserted or in a failed state.

Power Supply Status LED

Indicator	Status
Off	Power supply inserted, but status is unknown.
Green	Power supply is good.
Red	Power supply not inserted or in a failed state.

Aggregate Fan Status LED (7100T Only)

Indicator	Status
Off	One or more fans are inserted, but the status is unknown.
Green	All fans are good.
Red	Fan tray not inserted or in a failed state.

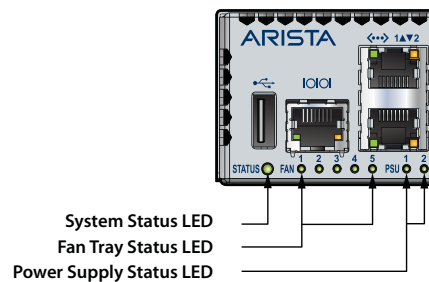


Figure 4-1: 7100S Series System Indicators

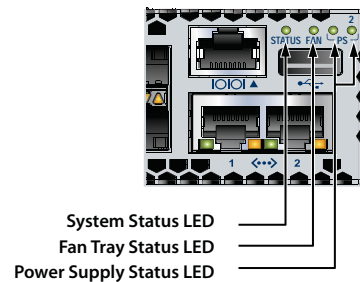


Figure 4-2: 7100T/7000T Series System Indicators

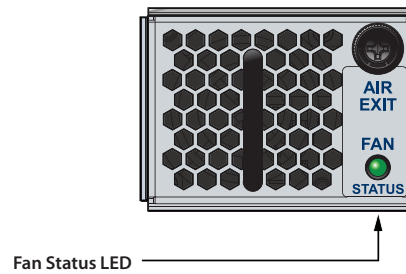
Chapter 4 – Status Indicators

Rear Panel System Status Indicators

Fan Tray Status LED on Rear Panel

Indicator	Status
Off	Fan inserted, but status is unknown.
Green	Fan is good.
Red	Fan in a failed state.

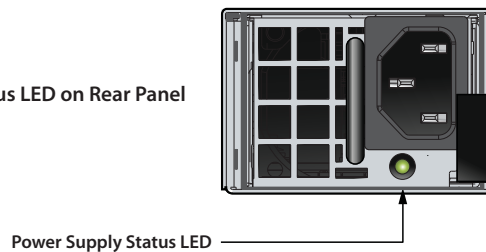
Figure 4-3: Fan Status LED on Rear Panel



650W Power Supply Status LED on Rear Panel

Indicator	Status
Off	No AC power to any power supply.
Green	Power supply operating normally.
Amber	AC loss to this power supply (in 1+1 mode).
Blinking Green	Power supply internal error. Re-insert the power supply.
Blinking Amber	Power supply operating with high temperature warning.

Figure 4-4: 650W Power Supply Status LED on Rear Panel



Chapter 4 – Status Indicators

Rear Panel System Status Indicators

760W Power Supply Status LED (OK) on Rear Panel

Indicator	Status
Off	Power Supply is not providing power to the switch.
Green	Power Supply is providing power to the switch.

760W Power Supply Alert LED on Rear Panel

Indicator	Status
Off	Power Supply has no internal failure.
Yellow	Power Supply has experienced an internal failure.

760W Power Supply ~ AC LED on Rear Panel

Indicator	Status
Off	No AC power to this power supply.
Green	Power Supply is providing power to the switch.

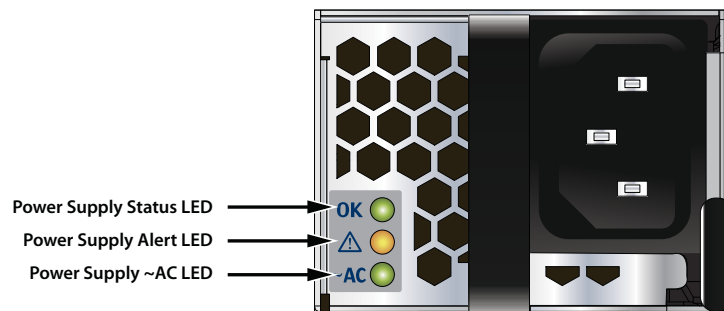


Figure 4-5: 760W Power Supply LEDs on Rear Panel

Chapter 4 – Status Indicators

Port LEDs

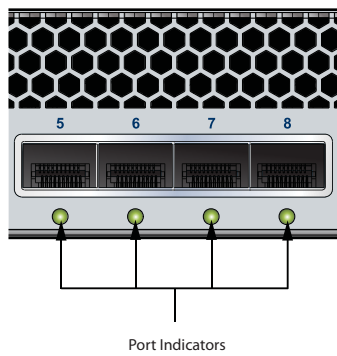


Figure 4-6: 7124S Port LEDs

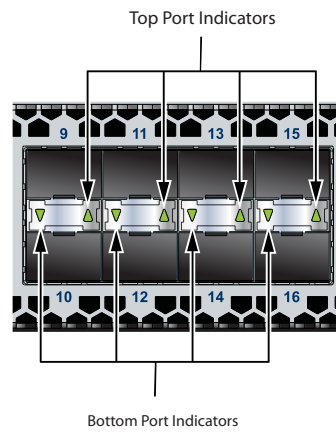


Figure 4-7: 7148S/SX Port LEDs

Port Status Indicators 7100S

Indicator	Status
Off	Port link is down.
Green	Port link is up.
Yellow	Port link is disabled in software.
Flashing Yellow	Port failed diagnostics.

Chapter 4 – Status Indicators

Port LEDs

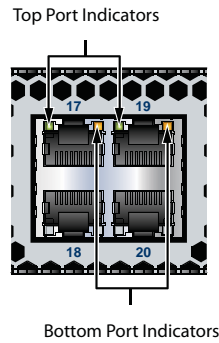


Figure 4-8: 7048T-4S/7120T-4S 1/10G-BASE-T Port LEDs

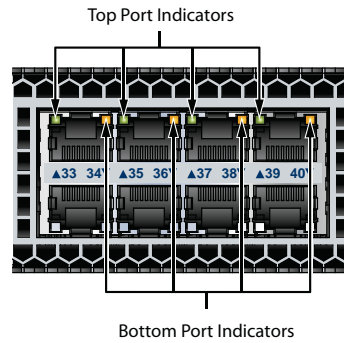


Figure 4-9: 7140T-8S 1/10G-BASE-T Port LEDs

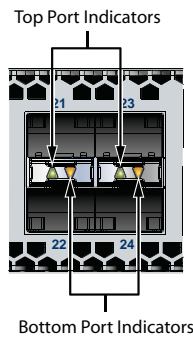


Figure 4-10: 7048T-4S/7120T-4S SFP+ Port LEDs

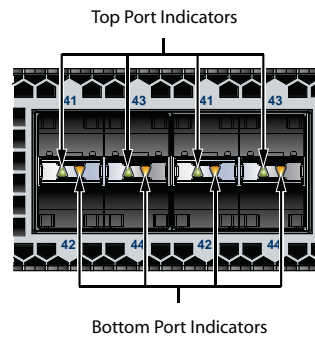


Figure 4-11: 7140T-8S SFP+ Port LEDs

Port Status Indicators (7000T/7100T)

Indicator	Status
Off	Port link is down.
Green	Port link is up.
Yellow	Port link is disabled in software.
Flashing Yellow	Port failed diagnostics.

Chapter 5 – Obtaining Technical Assistance

Any customer, partner, reseller or distributor holding a valid Arista Service Contract can obtain technical support in one of the following ways:

- Email:** support@aristanetworks.com. This is the easiest way to create a new service request. Please include a detailed description of the problem and the output of “show tech-support”.
- Web:** www.aristanetworks.com/en/support. A support case can be created via the support portal on our website. You may also download the most current software and documentation, as well as view FAQs, Knowledge Base articles, Security Advisories, and Field Notices.
- Phone:** 866-476-0000 or 408-547-5502.

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408 547-5501
866 497-0000

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