Dell Force10
S4820T System
Getting Started Guide

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DELL Force10

Notes, Cautions, and Warnings

NOTE: A NOTE indicates important information that helps you make better use of your computer.

CAUTION: A CAUTION indicates potential damage to the hardware or loss of data if you do not follow the instructions.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

If you purchased a Dell n Series computer, any references in this publication to Microsoft Windows operating systems are not applicable.

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Regulatory Model: S4820T

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About this Guide

This document is intended as a Getting Started Guide to get new systems up and running and ready for configuration. For complete installation and configuration information, refer to the documents listed in Table 1-1.

Table 1-1.   S4820T Documents

Information	Documentation
Hardware installation and power-up instructions	*Installing the S4820T System*
Software configuration	*FTOS Configuration Guide for the S4820T System*
Command line interface	*FTOS Command Line Reference Guide for the S4820T System*
Latest updates	*FTOS Release Notes for the S4820T System*

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Introduction

This document provides basic information about the S4820T switch, including how to install the switch and perform the initial configuration. For information about how to configure and monitor switch features, refer to the *User's Configuration Guide*, which is available on the Dell Support website at **support.dell.com/support**.

This document contains the following sections:

- Hardware Overview
- Installation
- Technical Specifications
- Performing the Initial Configuration

Product Description

S4820T is a top-of-rack (ToR) switch/router product for copper connections to 10G servers and 40Gbps uplinks to the 40G switching fabric in the core. The S4820T has 48 ports of 10GBase-T and four ports of 40Gbps with features and functions similar to the S4810 product.

The S4820T switch runs the Dell Force10 Operating System (FTOS), providing switching, bridging, and routing functionality for transmitting data, storage, and server traffic.

In a data center network, the S4820T switch provides converged network support and interoperates with Dell and third-party ToR devices. The switch supports data center bridging (DCB) features and optimizes connectivity between servers and storage devices using Fibre Channel over Ethernet (FCoE) and Internet Small Computer System Interface (iSCSI) links.

By providing increased 40GbE bandwidth for device interconnection in a shared network storage environment, with the possibility of splitting 40GbE Quad Small Form-Factor Pluggable Plus (QSFP+) uplinks into 10GbE SFP+ connections, the S4820T switch is perfectly positioned to help transition a data center with multiple speed requirements.

The S4820T solution is optimized to provide 10Gbps throughput for distances of up to:

- 330 feet (100 meters) over Cat6, 6A, and 7 shielded copper cable and Cat6A UTP copper cable
- 181.5 feet (55 meters) over Cat6 UTP copper cable

Hardware Overview

This section contains information about device characteristics and modular hardware configurations for the S4820T switch.

The S4820T has the following physical dimensions:

- 434 x 460 x 43.5 mm (W x D x H).
- 17.09 x 18.11 x 1.71 inches (W x D x H).

The S4820T has a chassis design with 640Gbps switching bandwidth as listed below:

- S4820T = 48 port 10GBase-T + 4 port 40G QSFP+

The system also provides one RS-232 interface RJ-45 YOST console port and a dedicated Ethernet service port for out-of-band (OOB) management functions.

The S4820T has the following features:

- Supports one universal serial bus (USB) port
- Forty-eight 10Gbps ports
- Four fixed 40Gbps QSFP ports for a 40Gbps transceiver
- On-board high-performance central processing unit (CPU) system with large memory, P2020/128 MB NOR Flash/2GB DDR III RAM.
- Temperature monitoring (TMP75)
- Software-readable thermal monitor
- Real time clock (RTC) support
- Hot-plugging redundant power supply
- Current monitoring for Power management
- Removable fan that you can manage
- Standard 1U chassis high

Fans

The S4820T has stock keeping units (SKUs) that support the following configurations. Installation of the fans is done as part of the factory install based on SKU type. The power supply units (PSUs) are to be installed at the customer site (refer to Power Supplies).

- AC PSU with fan airflow from I/O to PSU
- AC PSU with fan airflow from PSU to I/O
- DC PSU with fan airflow from I/O to PSU
- DC PSU with fan airflow from PSU to I/O

All fans and PSUs in a configuration must be in the same airflow direction. Should for some reason a mixed airflow configuration happen, the software is designed to notify you of the invalid configuration.

Figure 1-1.   S4820T Fan Modules
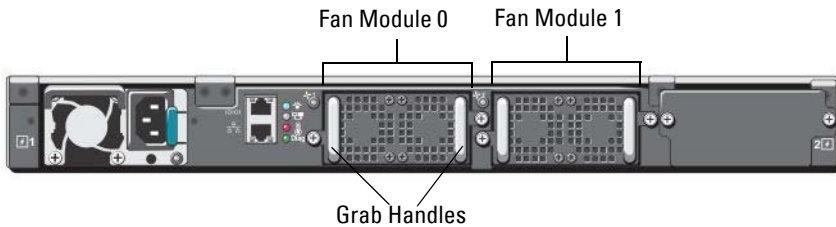
Front Panel

Figure 1-2 shows the S4820T front panel.

Figure 1-2.   S4820T Front Panel

10GBase-T Ports

USB 2.0 Port
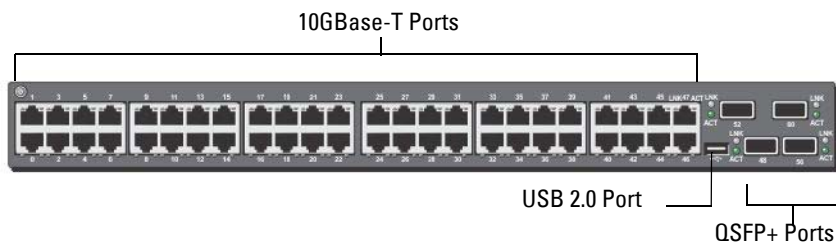
QSFP+ Ports

The front panel includes:

- 48 fixed 10GBase-T and four fixed QSFP+ ports
- One USB 2.0 port

> NOTE: The light emitting diodes (LEDs) display for System is on the front panel. The fan and power status indicators are on the back panel.

System Status

You can view S4820T status information in several ways, including LEDs and boot menu options. You can also view status information through the command line interface (CLI) show commands and with simple network management protocol (SNMP). For more information about these options, refer to the *FTOS Command Line Reference Guide* and *FTOS Configuration Guide for the S4820T System.*

As shown in Figure 1-3, the S4820T includes LED displays on both the I/O and PSU side of the chassis.

Figure 1-3.   Port LEDs
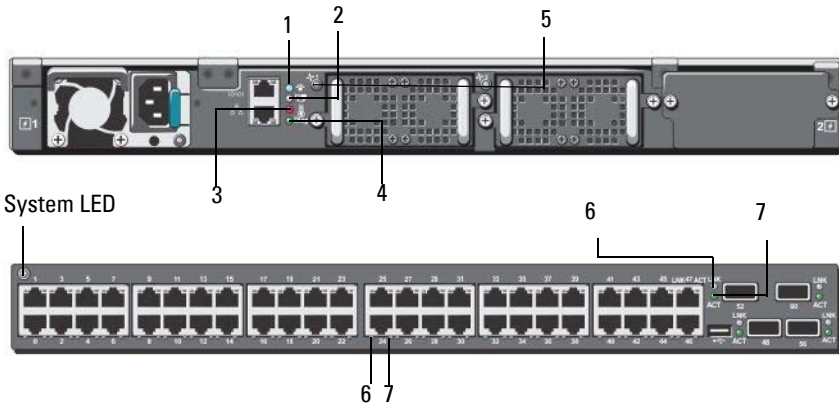
System LED

1 - Locator LED (Blue)
2 - Stack LED (Blue/Green)
3 - Temp LED (Red)
4 - Diag LED (Green)
5 - FAN LED (Green/Red)
6 - Link LED (Green/Amber)
7 - Activity LED (Blinking
            Green)

Table 1 lists the LED definitions for the S4820T system.

Table 1.   System LED Displays

Feature	Detailed Description	Comment
System LED	• Solid blue –Normal Operation • Blinking blue –Booting • Solid red –Critical system error • Blinking red –Non-critical system error (fan fail, power supply fail)	I/O side
TEMP LED	• Off: Normal temperature • Solid red –Overtemp (Refer NOTE:)	PSU side
DIAG LED	• Off –Normal operating • Solid green –System Booting or Diagnostics	PSU side
FAN LED	• Solid green –fan powered and running at the expected rpm • Solid red –fan failed	PSU side
STACK LED	• Solid blue –Switch in stacking master mode • Solid green–Switch in stacking slave mode • Off – Switch in stand alone mode	PSU side
LOCATOR LED	• Blinking blue – locator function is enabled • Solid blue – locator function is disabled	PSU side

NOTE: The system temperature threshold is 75°C. When one of the thermal sensors exceeds this temperature, the TEMP LED turns RED.

Table 1-1.   10GBT Ethernet Port LEDs

Feature	Detailed Description
Link LED	• Off – No Link
	• Solid green –Link on 10Gbps speed
	• Solid Amber –Link on 100M or 1Gbps speeds
Activity LED	• Off – No Link
	• Blinking green – Transmit/Receive is active

Table 1-2.   QSFP+ Port LEDs

Feature	Detailed Description
Link LED	• Off – No Link
	• Solid green –Link on 40Gbps speed
	• Solid Amber –Link on other speeds
Activity LED	• Off – No Link
	• Blinking green – Transmit/Receive is active

Table 1-3.   OOB Ethernet Port LEDs

Feature	Detailed Description
Link LED	• Off – No Link
	• Solid green –Link on 1Gbps speed
	• Solid Amber –Link on 100M or 10M speeds
Activity LED	• Off – No Link
	• Blinking green – Transmit/Receive is active

Installation

Unpacking the Switch

Package Contents

When unpacking each switch, make sure that the following items are included:

- One S4820T switch
- One RJ-45 to DB-9 female cable
- Two sets of rail kits (no tools required)
- One PSU
- One AC power cord (country/region specific)
- *Getting Started Guide*
- *Safety and Regulatory Information*
- *Warranty and Support Information*
- *Software License Agreement*

Unpacking Steps

> **NOTE:** Before unpacking the switch, inspect the container and immediately report any evidence of damage.

Step	Task
1	Place the container on a clean, flat surface and cut all straps securing the container.
2	Open the container or remove the container top.
3	Carefully remove the switch from the container and place it on a secure and clean surface.
4	Remove all packing material.
5	Inspect the product and accessories for damage.

Power Supplies

The S4820T supports two hot-swappable power supplies units (PSUs) and fans that provide cooling for the system. The S4820T supports AC and DC power supplies with two air-flow directions (I/O to PSU and PSU to I/O). Two PSUs are required for full redundancy, but the system will operate with a single PSU.

> **NOTE:** If you use a single PSU, you must install a blank plate in the other PSU slot. Dell Force10 recommends using power supply 1 (PSU1) as the blank plate slot.

The PSUs are field replaceable. When running with full redundancy (two power supplies installed and running), you can remove and replace one PSU while the other PSU is running without disrupting traffic.

The S4820T does not support mixing PSU types. You cannot replace an AC PSU with a DC PSU and you cannot replace an AC-R PSU with a DC-R PSU.

⚠ **WARNING: Electrostatic discharge (ESD) damage can occur if components are mishandled. Always wear an ESD-preventive wrist or heel ground strap when handling the S4820T and its components.**

⚠ **CAUTION: To prevent electrical shock, ensure the S4820T is grounded properly. If you do not ground your equipment correctly, excessive emissions may result. Use a qualified electrician to ensure the power cables meet your local electrical requirements.**

Figure 1-4.   S4820T Power Supply
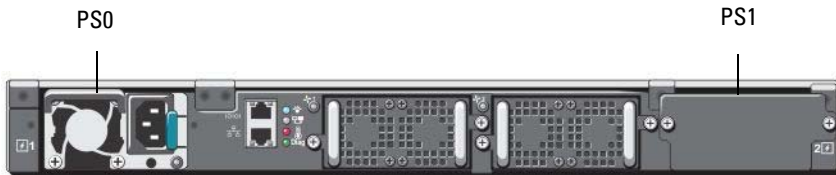
Install an AC or DC Power Supply

To install an AC or DC power supply, follow these steps:

✎ **NOTE:** The PSU slides into the slot smoothly. Do not force a PSU into a slot as this may damage the PSU or the S4820T chassis.

✎ **NOTE:** Ensure that the PSU is correctly installed. When the PSU is correctly installed, the power connector is on the left side of the PSU and the status LED is at the top of the PSU

✎ **NOTE:** If you use a single PSU, you must install a blank plate in the other PSU slot. Dell Force10 recommends using power supply 1 (PSU1) as the blank plate slot.

Step	Task
1	Remove the PSU slot cover from the S4820T (PSU side of switch), either of the two PSU slots may be selected.
2	Remove the PSU from the electro-static bag.
3	• Insert the PSU into the switch PSU slot (PSU exposed PCB edge connector should be inserted first). • The PSU slot is keyed such that the PSU can only be fully inserted in one orientation. • When the PSU is installed correctly it should snap into place and be flush with the back of the switch.
4	Plug in the appropriate cord (AC 3 prong or DC wiring) from the switch PSU to the external power source (either AC wall outlet or DC rack bus bar).
5	If you have a redundant PSU (2nd PSU), repeat steps 1 through 5 above using the 2nd PSU slot on the S4820T switch.

✎ **NOTE:** The system powers up as soon as the cables are connected between the power supply and the power source.

Rack Mounting the Switch

You may either place the switch on the rack shelf or mount the switch directly into a 19" wide, EIA-310-E- compliant rack (four-post, two-post, or threaded methods). The Dell ReadyRails™ system is provided for 1U front-rack, and two-post installations. The ReadyRails system includes two separately packaged rail assemblies and two rails that are shipped attached to the sides of the switch.

> ⚠ **WARNING: This is a condensed reference. Read the safety instructions in your Safety, Environmental, and Regulatory information booklet before you begin.**

> ✎ NOTE: The illustrations in this document are not intended to represent a specific switch.

Rack Mounting Safety Considerations

- Rack loading—Overloading or uneven loading of racks may result in shelf or rack failure, causing damage to the equipment and possible personal injury. Stabilize racks in a permanent location before loading begins. Mount the components beginning at the bottom of the rack, then work to the top. Do not exceed your rack load rating.

- Power considerations—Connect only to the power source specified on the unit. When multiple electrical components are installed in a rack, ensure that the total component power ratings do not exceed the circuit capabilities. Overloaded power sources and extension cords present fire and shock hazards.

- Elevated ambient temperature—If installed in a closed rack assembly, the operating temperature of the rack environment may be greater than the room ambient temperature. Use care not to exceed the 40°C maximum ambient temperature of the switch.

- Reduced air flow—Install the equipment in the rack so that the amount of airflow required for safe operation of the equipment is not compromised.

- Reliable earthing—Maintain reliable earthing of rack-mounted equipment. Pay particular attention to the supply connections other than the direct connections to the branch circuit, for example: use of power strips.

- Do not mount the equipment with the rear panel facing in the downward position.

Installing the Dell ReadyRails System

The ReadyRails rack mounting system is provided to easily configure your rack for installation of your switch. The ReadyRails system can be installed using the 1U tool-less method or one of three possible 1U tooled methods (two-post flush mount, two-post center mount, or four-post threaded).

1U Tool-less Configuration (Four-post Square Hole or Unthreaded Round Hole):

1 With the ReadyRails flange ears facing outward, place one rail between the left and right vertical posts. Align and seat the rear flange rail pegs in the rear vertical post flange. In Figure 1-5, item 1 and its extractions show how the pegs appear in both the square and unthreaded round holes.

Figure 1-5.   1U Tool-less Configuration
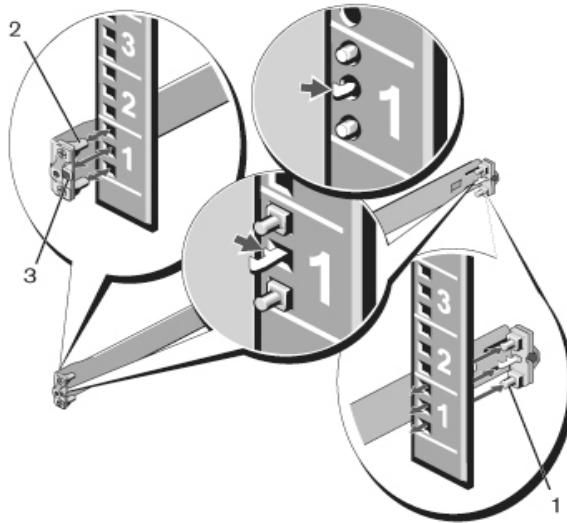
2 Align and seat the front flange pegs in the holes on the front side of the vertical post. Refer to Figure 1-5, item 2.

3 Repeat this procedure for the second rail.

4 To remove each rail, pull on the latch release button on each flange ear and unseat each rail. Refer to Figure 1-5, item 3.

Two-post Flush-mount Configuration:

1   For this configuration, you must remove the castings from the front side of each ReadyRails assembly. Refer to Figure 1-6, item 1. Use a Torx driver to remove the two screws from each front flange ear (on the switch side of the rail) and remove each casting. Retain the castings for future rack requirements. It is not necessary to remove the rear flange castings.

Figure 1-6.   Two-post Flush-mount Configuration
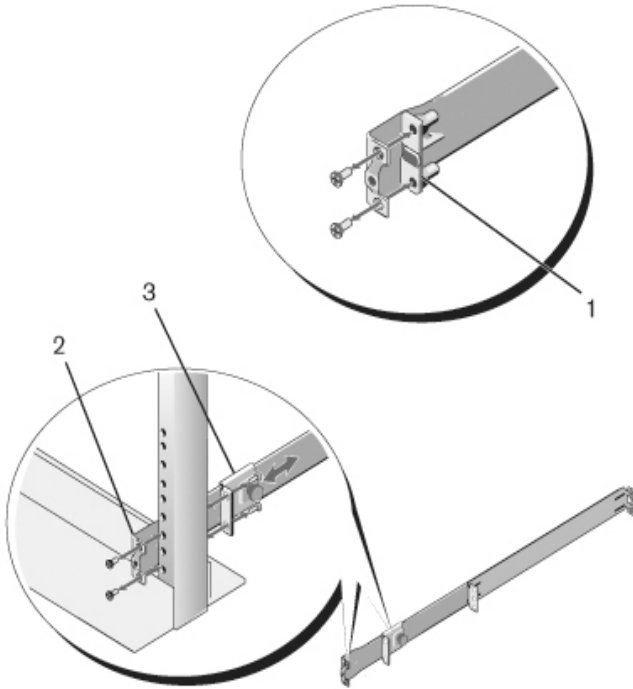
2   Attach one rail to the front post flange with two user-supplied screws. Refer to Figure 1-6, item 2.

3   Slide the plunger bracket forward against the vertical post and secure the plunger bracket to the post flange with two user-supplied screws. Refer to Figure 1-6, item 3.

4   Repeat this procedure for the second rail.

Two-post Center-mount Configuration:

1   Slide the plunger bracket rearward until it clicks into place and secure the bracket to the front post flange with two user-supplied screws. Refer to Figure 1-7, item 1.

Figure 1-7.   Two-post Center-mount Configuration
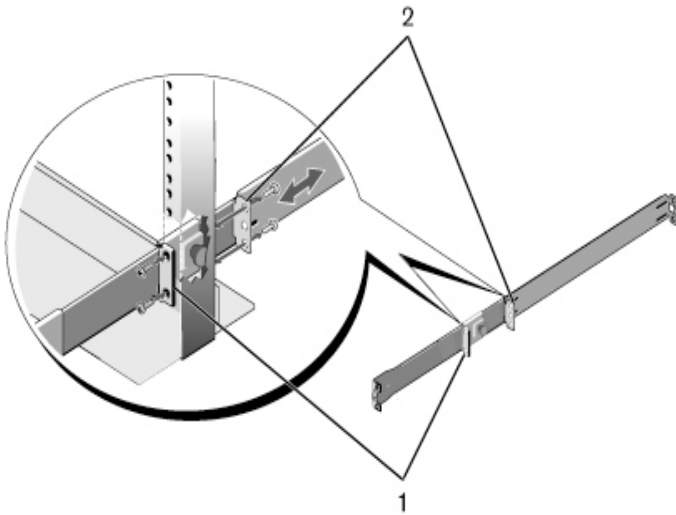
2   Slide the back bracket towards the post and secure it to the post flange with two user-supplied screws. Refer to Figure 1-7, item 2.

3   Repeat this procedure for the second rail.

Four-post Threaded Configuration:

1 For this configuration, you must remove the flange ear castings from each end of the ReadyRails assemblies. Use a Torx driver to remove the two screws from each flange ear and remove each casting. Refer to Figure 1-8, item 1. Retain the castings for future rack requirements.

2 For each rail, attach the front and rear flanges to the post flanges with two user-supplied screws at each end. Refer to Figure 1-8, item 2.

Figure 1-8. Four-post Threaded Configuration
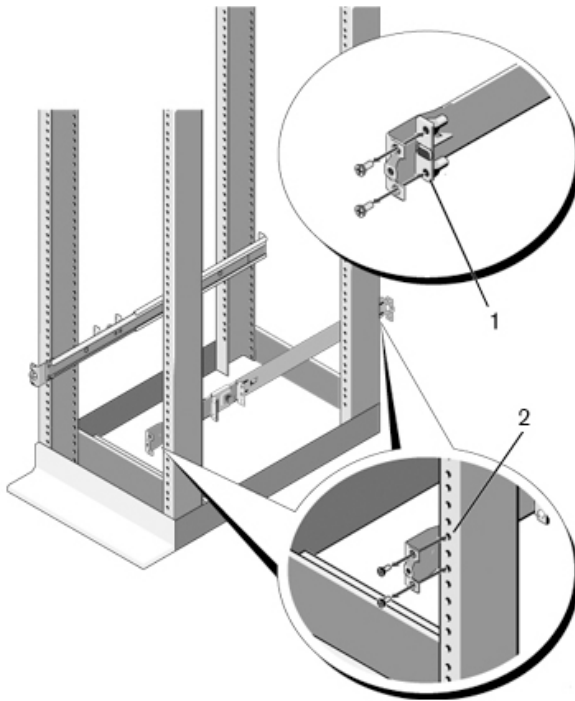
Installing the Switch

You can mount the switch in the 1U front-rack or 1U two-post (flush and center) configurations. The following is an example of a 1U front-rack configuration. For the 1U two-post (flush and center) configurations, you can slide the switch into the rails in the same manner as the four-post configurations.

1U Front-rack Installation

You must configure the rails that are attached to the switch.

1   Attach the switch rails (inner chassis members) to the S4820T switch. Figure 1-9, item 1 shows the detail for the front standoff with the locking tab.

Figure 1-9.   Attaching the Switch Rails
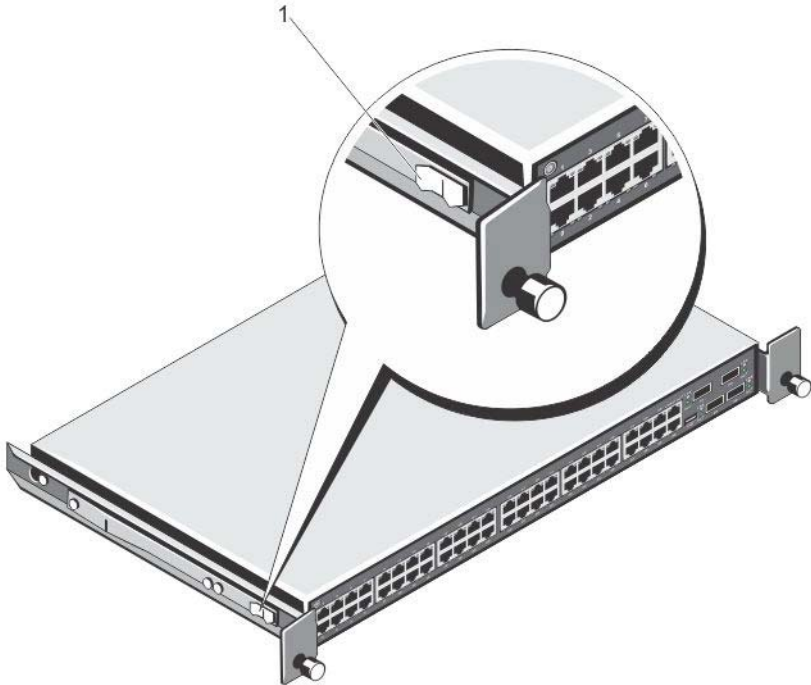
2 After both switch rails are installed, line them up on the previously mounted Ready-Rails and slide the switch in until it is flush with front of rack. About three inches prior to full insertion, the rail locking feature engages to keep the switch from inadvertently sliding out of the rack and falling.

Technical Specifications

Operate the product at an ambient temperature not higher than 40°C.

⚠ **Lithium Battery Caution: There is a danger of explosion if the battery is incorrectly replaced.**

Replace only with same or equivalent type. Dispose of the batteries according to the manufacturer's instructions.

Chassis Physical Design

Parameter	Specifications
Height	1.71 inches (43.5 mm)
Width	17.09 inches (434 mm)
Depth	18.11 inches (460 mm)

Environmental Parameters

Parameter	Specifications
Operating temperature	32° to 104°F (0° to 40°C)
Operating humidity	10 to 85% (RH), non-condensing
Storage temperature	–40° to 158°F (–40° to 70°C)
Storage humidity	5 to 95% (RH), non-condensing
Maximum thermal output	419.7 BTU/hr

Power Requirements

Parameter	Specifications
Power supply	100–240 VAC 50/60 Hz
Maximum current draw per system	4 A @ 398.02watts/100vac
	2 A @ 398.02watts/200vac
Maximum power consumption	398.02 Watts
Reliability	MTBF 355,178 hours

Ø **NOTE:** The table below represents the DC PSU's capabilities and does not represent the S4820T operation.

DC Input Specification

The power supply operates within all specified limits over the following input voltage range.

min/max input voltage range	−40.5V /−48V/ −60V
input power at full load	−40.5V/970W −48V/930W −60V/950W (without fan)
	−40.5V/980W −48V/940W −60V/960W (with fan)
input current at full load	−40.5V/23.8A −48V/19.0A −60V/15.6A (without fan)
	−40.5V/24A −48V/19.2A −60V/16.0A (with fan)
Start up VDC	39.0+/−1.5V
Start off VDC	37.5+/−1.5V

IEEE Standards

The S4820T switch complies with the following IEEE standards:

- •802.1AB LLDP
- •802.1ag Connectivity fault Management
- •802.1D Bridging, STP
- •802.1p L2 Prioritization
- •802.1Q VLAN Tagging, Double VLAN Tagging, GVRP
- •802.1s MSTP
- •802.1w RSTP
- •802.3ab Gigabit Ethernet (1000BASE-T)
- •802.3ac Frame Extensions for VLAN Tagging
- •802.3ad Link Aggregation with LACP
- •802.3ae 10 Gigabit Ethernet (10GBASE-X)
- •802.3ba 40 Gigabit Ethernet (40GBase-SR4, 40GBase-CR4) on optical ports
- •802.3u Fast Ethernet (100BASE-TX)
- •802.3x Flow Control
- •802.3z Gigabit Ethernet (1000BASE-X)

2

Performing the Initial Configuration

Navigating CLI Modes

The FTOS prompt changes to indicate the CLI mode. You must move linearly through the command modes, with the exception of the **end** command which takes you directly to EXEC Privilege mode and the **exit** command which moves you up one command mode level.

Console Access

> ✎ **NOTE:** Before starting this procedure, be sure you have a terminal emulation program already installed on your PC.

The RS-232/RJ-45 console port is labeled on the upper right-hand side of the S4820T system as you face the Input/Output (I/O) side of the chassis (Figure 2-1).

Figure 2-1.   RS-232/RJ-45 Console Port
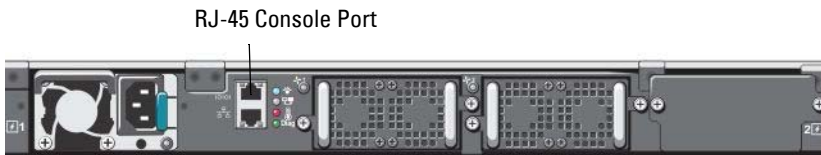
RJ-45 Console Port

To set up the RS-232/RJ-45 console port, follow these steps:

Step	Task
1	Install an RJ-45 copper cable into the console port. Use a rollover cable to connect the S4820T console port to a terminal server.
2	Connect the other end of the cable to the DTE terminal server.
3	Set the default terminal settings as follows: • 9600 baud rate • No parity • 8 data bits • 1 stop bit • No flow control

Accessing the RJ-45 Console Port with a DB-9 Adapter

If the DTE has a DB-9 interface, you can connect to the console using an RJ-45 to DB-9 adapter along with the RJ-45 rollover cable. Table 2-1 lists the pin assignments.

Table 2-1.   Pin Assignments Between the Console and a DTE Terminal Server

Console Port	RJ-45 to RJ-45 Rollover Cable		RJ-45 to DB-9 Adapter	Terminal Server Device
Signal	RJ-45 Pinout	RJ-45 Pinout	DB-9 Pin	Signal
RTS	1	8	8	CTS
NC	2	7	6	DSR
TxD	3	6	2	RxD
GND	4	5	5	GND
GND	5	4	5	GND
RxD	6	3	3	TxD
NC	7	2	4	DTR
CTS	8	1	7	RTS

Default Configuration

A version of FTOS is pre-loaded onto the S4820T system; however, the system is not configured when you power up for the first time (except for the default host name, which is FTOS). You must configure the system using the CLI.

Configure Layer 2 (Data Link) Mode

Use the **switchport** command in INTERFACE mode to enable Layer 2 data transmissions through an individual interface. You cannot configure switching or Layer 2 protocols such as Spanning Tree Protocol (STP) on an interface unless the interface has been set to Layer 2 mode.

To configure Layer 2 mode, follow these steps:

Step	Task	Command Syntax	Command Mode
1	Enable the interface.	**no shutdown**	INTERFACE
2	Place the interface in Layer 2 (switching) mode.	**switchport**	INTERFACE

To view the interfaces in Layer 2 mode, use the **show interfaces switchport** command in EXEC mode.

Configure a Host Name

The host name appears in the prompt. The default host name is FTOS. Host names must start with a letter, end with a letter or digit, and must have characters, letters, digits, and hyphens in the string.

To configure a host name, follow this step:

Task	Command Syntax	Command Mode
Create a new host name.	**hostname** *name*	CONFIGURATION

Access the System Remotely

You can configure the S4820T system to be accessed remotely by Telnet. The system has a dedicated management port and a management routing table that is separate from the IP routing table.

To access the system remotely, follow these steps:

Step	Task
1	Configure an IP address for the management port (Configure the Management Port IP Address).
2	Configure a management route with a default gateway (Configure the Management Route).
3	Configure a username and password (Configure the Username and Password).

Configure the Management Port IP Address

In order to access the system remotely, assign IP addresses to the management ports.

To assign IP addresses to the management ports, follow these steps:

Step	Task	Command Syntax	Command Mode
1	Enter INTERFACE mode for the Management port.	**interface ManagementEthernet** *slot/port*	CONFIGURATION
2	Assign an IP address to the interface.	**ip address** *ip-address/mask*	INTERFACE
3	Enable the interface.	**no shutdown**	INTERFACE

Configure the Management Route

Define a path from the S4820T to the network from which you are accessing the S4820T remotely. Management routes are separate from IP routes and are used to manage the S4820T through the management port.

To configure a management route, follow this step:

Task	Command Syntax	Command Mode
Configure a management route to the network from which you are accessing the system.	**management route** *ip-address/mask gateway*	CONFIGURATION

Configure the Username and Password

To access the system remotely, configure a system username and password.

To configure a username and password, follow this step:

Task	Command Syntax	Command Mode
Configure a username and password to access the system remotely.	**username** *username* [*encryption-type*] **password**	CONFIGURATION

Configure the Enable Password

Access EXEC Privilege mode using the **enable** command. EXEC Privilege mode is unrestricted by default. As a basic security measure, configure a password. There are two types of enable passwords:

- enable password—stores the password in the running/startup configuration using a data encryption standard (DES)-encryption method.
- enable secret—stores the running/startup configuration using a stronger, MD5-encryption method.

Dell Force10 recommends using the enable secret password.

To configure the enable secret password, follow this step:

Task	Command Syntax	Command Mode
Create a password to access EXEC Privilege mode.	**enable [password	secret] [level** *level*] [*encryption-type*] *password*	CONFIGURATION

Create a Port-based VLAN

The Default VLAN (VLAN 1) is part of the system startup configuration and does not require configuration. To configure a port-based VLAN, you must create the VLAN and then add physical interfaces or port channel (LAG) interfaces to the VLAN.

To create a port-based VLAN, follow this step:

Task	Command Syntax	Command Mode
Configure a port-based VLAN (if the *vlan-id* is different from the Default VLAN ID) and enter INTERFACE VLAN mode. After you create a VLAN, you must assign interfaces in Layer 2 mode to the VLAN to activate the VLAN.	**interface vlan** *vlan-id*	CONFIGURATION

To view the configured VLANs, use the **show vlan** command in EXEC Privilege mode.

Assign Interfaces to a VLAN

You can only assign interfaces in Layer 2 mode to a VLAN using the **tagged** and **untagged** commands. To place an interface in Layer 2 mode, use the **switchport** command.

You can designate Layer 2 interfaces as tagged or untagged. When you place an interface in Layer 2 mode using the **switchport** command, the interface is automatically designated untagged and placed in the Default VLAN.

To view which interfaces are tagged or untagged and to view which VLAN the interfaces belong, use the **show vlan** command. To view just the interfaces that are in Layer 2 mode, use the **show interfaces switchport** command in EXEC Privilege mode or EXEC mode.

To tag frames leaving an interface in Layer 2 mode, you must assign that interface to a port-based VLAN to tag it with that VLAN ID.

To tag interfaces, follow these steps:

Step	Task	Command Syntax	Command Mode
1	Access the INTERFACE VLAN mode of the VLAN to which you want to assign the interface.	**interface vlan** *vlan-id*	CONFIGURATION
2	Enable an interface to include the IEEE 802.1Q tag header.	**tagged** *interface*	INTERFACE

Use the **untagged** command to move untagged interfaces from the Default VLAN to another VLAN:

To move untagged interfaces, follow these steps:

Step	Task	Command Syntax	Command Mode
1	Access the INTERFACE VLAN mode of the VLAN to which you want to assign the interface.	**interface vlan** *vlan-id*	CONFIGURATION
2	Configure an interface as untagged. This command is available only in VLAN interfaces.	**untagged** *interface*	INTERFACE

Assign an IP Address to a VLAN

VLANs are a Layer 2 feature. For two physical interfaces on different VLANs to communicate, you must assign an IP address to the VLANs to route traffic between the two interfaces. The **shutdown** command in INTERFACE mode does not affect Layer 2 traffic on the interface.

✐ **NOTE:** You cannot assign an IP address to the Default VLAN, which, by default, is VLAN 1. To assign another VLAN ID to the Default VLAN, use the default **vlan-id** *vlan-id* command.

To assign an IP address to a VLAN, follow this step:

Task	Command Syntax	Command Mode
Configure an IP address and mask on the interface.	**ip address** *ip-address mask* [*secondary*]	INTERFACE

Connecting the S4820T to the Network

After you have completed the hardware installation and software configuration for the S4820T system, you can connect to your company network by following your company's cabling requirements.

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