

# Cisco Catalyst 2960-S/2960-SF Series Switches



## Cisco Catalyst 2960-S and 2960-SF Series Switches in Enterprises and Branches

The Cisco® Catalyst® 2960-S and 2960-SF Series Switches (Figure 1) are stackable fixed-configuration Ethernet switches offering Gigabit and Fast Ethernet connectivity for enterprise, midmarket, and branch locations. They enable reliable and secure business operations with lower total cost of ownership through a range of innovative features, including FlexStack, Power over Ethernet Plus (PoE+), and Smart Operations.

Figure 1. Cisco Catalyst 2960-S and 2960-SF Switches



The Cisco Catalyst 2960-S and 2960-SF come in 24-port and 48-port models. The 2960-S provides Gigabit Ethernet (10/100/1000) connectivity with 10G/1G Small Form-Factor Pluggable (SFP/SFP+) uplinks, and the 2960-SF provides Fast Ethernet (10/100) connectivity with 1G SFP uplinks.

These enterprise-grade switches support the following two software feature sets:

- **LAN Base Software** comes with advanced Layer 2 (L2) features, FlexStack stacking, static routing, and PoE+ and is typically targeted at large enterprise deployments.
- **LAN Lite Software** comes with entry-level Layer 2 features and PoE+ and is typically targeted at midmarket deployments.

## Power over Ethernet

Cisco Catalyst 2960-S and 2960-SF switches support both Power over Ethernet (PoE) and PoE+ to deliver lower total cost of ownership for deployments that incorporate IP phones, wireless access points, surveillance cameras, or other standards-based PoE/PoE+ end devices.

## Cisco FlexStack Stacking

The Cisco FlexStack stacking module with 20 Gbps of throughput allows stacking of up to four switches, thus enabling ease of operation and management with a single configuration and simplified switch upgrade. (See Figure 2.)

Figure 2. FlexStack Stacking on 2960-S and 2960-SF Switches



## Network Security

The Cisco Catalyst 2960-S and 2960-SF switches deliver a range of features that secure access to the network and enforce security policies. These features include flexible authentication with 802.1X monitor mode, Cisco Security Exchange Protocol (SXP) for policy enforcement and integration with Cisco Identity Services Engine (ISE), and IPv6 first-hop security. Furthermore, these Cisco switches protect network data confidentiality and integrity with switch port-level encryption.

## Management

The Cisco Catalyst 2960-S and 2960-SF Series Switches offer a superior Cisco IOS® Software CLI for configuration and administration. For centralized management capabilities, these switches are also supported by the Cisco Prime™ infrastructure for larger enterprises and Cisco Network Assistant for midmarket deployments.



## Smart Operations

The Cisco Catalyst 2960-S and 2960-SF make deployment and ongoing management easy with Cisco Smart Operations, which enable customers to reduce switch installation, configuration, troubleshooting time, and operational costs.

- **Cisco Smart Install and Configuration** is a zero-touch feature that is a transparent technology that automates both the initial switch configuration and the Cisco IOS Software image updated without user intervention.
- **Cisco Auto SmartPorts** provide automatic Ethernet interface-level configuration as devices connect to the switch port, allowing autodetection and plug and play of the device onto the network. It configures the Ethernet interface port with predefined configurations, including security, quality of service (QoS), and manageability features, with minimal effort and expertise.

## Cisco EnergyWise

**Cisco EnergyWise™ Technology** is an innovative architecture added to the Cisco Catalyst 2960-S and 2960-SF switches that enables the measurement of power consumption in the network infrastructure and network-attached devices. Cisco EnergyWise encompasses a highly intelligent network-based approach that measures and controls energy between network devices and endpoints and takes action based on business rules to reduce power consumption.

## Warranty Coverage and Technical Service Options

The Cisco Catalyst 2960-S and 2960-SF Series Switches come with an enhanced limited lifetime hardware warranty (E-LLW) that includes 90 days of Cisco Technical Assistance Center (TAC) support and next-business-day hardware replacement where available.

For more information about Cisco warranties, visit [www.cisco.com/go/warranty](http://www.cisco.com/go/warranty).

For information about Cisco Technical Services, visit [www.cisco.com/go/ts](http://www.cisco.com/go/ts).

## Product Availability

Shipping worldwide, no restrictions.

## More Information

For more information, visit [www.cisco.com/go/2960](http://www.cisco.com/go/2960).