Cisco C1300-8FP-2G

Cisco Catalyst 1300-8FP-2G Managed Switch User Manual

Model: C1300-8FP-2G

1. Introduction

The Cisco Catalyst 1300-8FP-2G is a fully managed switch designed to provide reliable and secure connectivity for small business networks. This device offers full Layer 2/3 capabilities, an intuitive web dashboard for management, advanced networking features, and Power over Ethernet Plus (PoE+) support.

This manual provides essential information for the proper installation, configuration, operation, and maintenance of your Cisco Catalyst 1300-8FP-2G Managed Switch.

2. Package Contents

Verify that your package contains the following items:

- Cisco Catalyst 1300-8FP-2G Managed Switch
- Power cord or adapter
- USB Type-C cable
- Mounting hardware

If any items are missing or damaged, please contact your vendor or Cisco support immediately.

3. Physical Overview

The following images illustrate the physical components and ports of the Cisco Catalyst 1300-8FP-2G Managed Switch.

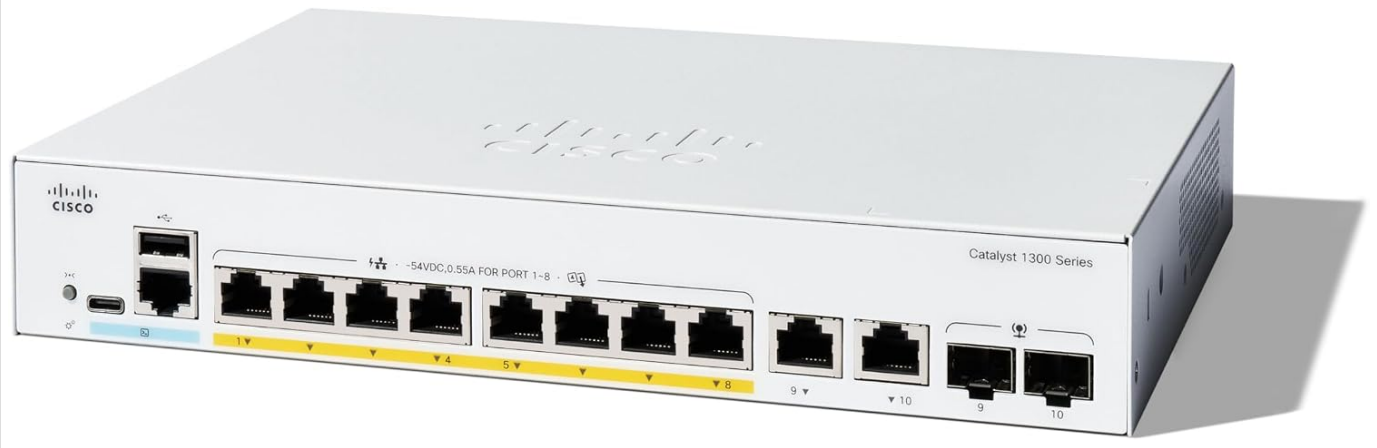


Figure 3.1: Top-down view of the Cisco Catalyst 1300-8FP-2G Managed Switch. This image shows the overall compact design of the switch with the Cisco logo prominently displayed on the top casing.

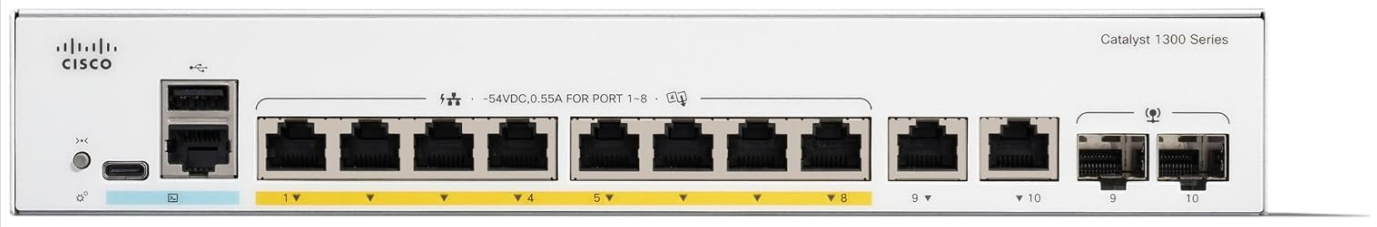


Figure 3.2: Front panel of the Cisco Catalyst 1300-8FP-2G Managed Switch. This view highlights the eight 10/100/1000 Gigabit Ethernet ports, which support Power over Ethernet (PoE/PoE+), and two 1GE copper/SFP combo uplink ports. The power input and USB-C console port are also visible on the left side.

4. Setup and Installation

Follow these steps to properly install and power on your switch.

4.1. Mounting the Switch

The switch can be placed on a desktop or mounted in a rack or on a wall using the included mounting hardware. Ensure adequate ventilation around the device to prevent overheating.

4.2. Connecting Power

1. Connect the power cord or adapter to the power input on the switch.
2. Plug the other end of the power cord into a grounded electrical outlet.
3. Verify that the power indicator LED on the switch illuminates, indicating the device is receiving power.

4.3. Network Connections

- **Data Ports:** Connect your network devices (computers, IP phones, wireless access points) to the 8 Gigabit Ethernet ports (ports 1-8). These ports support PoE/PoE+ for compatible devices.
- **Uplink Ports:** Use the two 1GE copper/SFP combo ports (ports 9-10) to connect the switch to your core network, router, or another switch. These ports can accept either an RJ45 Ethernet cable or an SFP module for fiber optic connections.

5. Operation and Management

The Cisco Catalyst 1300-8FP-2G switch offers multiple management options for ease of use.

5.1. Initial Configuration

The switch can be configured using an intuitive web interface or the Cisco Business mobile app. Step-by-step instructions are provided to install and configure your network without requiring extensive IT expertise.

- **Web Interface:** Access the switch's web-based graphical user interface (GUI) by connecting a computer to one of the switch's data ports and navigating to the default IP address in a web browser. Refer to the Quick Start Guide for the default IP address and login credentials.
- **Cisco Business Mobile App:** Download the Cisco Business mobile app for simplified setup and monitoring directly from your mobile device.
- **Cisco Business Dashboard:** For managing multiple Cisco Business devices, the Cisco Business Dashboard provides a centralized management platform.

5.2. Power over Ethernet (PoE)

The 8 Gigabit Ethernet ports provide Power over Ethernet (PoE and PoE+) with a total power budget of 120W. This allows you to power compatible devices such as IP phones, wireless access points, and IP cameras directly through the Ethernet cable, simplifying deployment and reducing cabling requirements.

6. Security Features

The switch incorporates advanced security features to protect your network.

- **IP-MAC Port Binding:** This feature detects and blocks deliberate network attacks by ensuring that only authorized devices with specific IP and MAC address combinations can access a port.
- **IPv6 First Hop Security:** Provides protection against various address spoofing and man-in-the-middle attacks on IPv6 networks, enhancing overall network integrity.

7. Energy Efficiency

The Cisco Catalyst 1300-8FP-2G is designed with energy efficiency in mind to help reduce operational costs.

- **IEEE 802.3az Energy Efficient Ethernet:** Compliant with this standard, the switch optimizes power usage by reducing power consumption during periods of low data activity on Ethernet links.
- **Fanless Design:** This model operates without a fan, contributing to lower power consumption and silent operation, making it suitable for office environments.

8. Troubleshooting

This section provides basic troubleshooting steps for common issues.

8.1. No Power

- Ensure the power cord is securely connected to both the switch and a working electrical outlet.
- Verify the power outlet is functional by plugging in another device.

8.2. No Network Connectivity

- Check the Ethernet cables connected to the switch and your devices. Ensure they are securely plugged in and not damaged.
- Verify the link/activity LEDs on the switch ports. A solid or blinking green LED indicates a valid connection and activity.

- Confirm that your devices are configured with correct network settings (IP address, subnet mask, gateway).

8.3. PoE Device Not Powering On

- Ensure the connected device is PoE compatible and meets the power requirements.
- Check the PoE status LED for the specific port.
- Verify the total PoE power budget (120W) is not exceeded by all connected devices.

For more advanced troubleshooting, consult the online documentation or contact Cisco technical support.

9. Specifications

Feature	Detail
Model Number	C1300-8FP-2G
Ports	8x 10/100/1000 Gigabit Ethernet (PoE/PoE+), 2x 1GE Copper/SFP Combo Uplink
PoE Power Budget	120W
Data Transfer Rate	1000 Megabits Per Second
Interface Type	PoE, SFP
Dimensions (LxWxH)	10.56 x 11.71 x 1.73 inches
Weight	5.08 pounds (2.31 kg)
Voltage	230 Volts
Manufacturer	Cisco
UPC	889728522021

10. Warranty and Support

The Cisco Catalyst 1300-8FP-2G Managed Switch comes with a limited lifetime hardware warranty. This warranty typically covers defects in materials and workmanship under normal use.
Additionally, complimentary 1-year technical support is provided to assist with initial setup and basic troubleshooting. For detailed warranty terms and conditions, please refer to the official Cisco website or the documentation included with your product.
For technical assistance, product registration, or to access additional resources, please visit the official Cisco support portal:

Cisco Support

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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