



C1300-48P-4G DataSheet



The Cisco C1300-48P-4G datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the C1300-48P-4G and integrate it into enterprise or service provider networks with confidence.

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C1300-48P-4G Description

The Cisco Catalyst C1300-48P-4G is an enterprise-class, managed Layer 3 switch designed to provide reliable and secure connectivity for small to medium-sized businesses (SMBs) and branch offices. It features 48 Gigabit Ethernet ports with IEEE 802.3at PoE+ support and a total power budget of 370W, making it an ideal powerhouse for deploying IP phones, wireless access points, and surveillance cameras without the need for additional electrical wiring.

Running on a customized Linux-based OS, the C1300-48P-4G combines advanced network features like static routing, VLANs, and robust security with ease of use. It can be managed via the intuitive Cisco Business Dashboard or mobile app, simplifying network setup and lifecycle management. With a fan-cooled design ensuring operational stability and a limited lifetime warranty, this switch delivers the perfect balance of performance, affordability, and peace of mind for growing business networks.

Key Features

Reliable PoE+ Power Hub

Delivers a 370W PoE budget across 48 Gigabit ports, supporting IEEE 802.3at (PoE+). This allows businesses to power a mix of VoIP phones, Wi-Fi 6 access points, and IP cameras directly from the switch, simplifying deployment and reducing cabling costs.

Simplified Cloud Management

Managed via the Cisco Business Dashboard and mobile app, this switch eliminates the complexity of traditional networking. It supports automated discovery, monitoring, and lifecycle management, allowing IT teams to configure and troubleshoot the network from anywhere.

Enterprise-Grade Security

Protects sensitive business data with advanced security features including IEEE 802.1X port security, Access Control Lists (ACLs), and DoS attack prevention. It also supports IPv6 First Hop Security to safeguard against address spoofing and man-in-the-middle attacks.

Advanced Layer 3 Routing

Unlike basic Layer 2 switches, the C1300-48P-4G supports dynamic Layer 3 static routing. This enables segmentation of the network into workgroups and facilitates communication between VLANs without degrading application performance, offloading traffic from the router.

Energy Efficient Design

Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE), the switch automatically reduces power consumption on inactive links. It also features intelligent power management to optimize PoE delivery and cable length detection to conserve energy.

Flexible & Secure Guest Access

Easily creates isolated network segments for guest Wi-Fi in lobbies or meeting rooms. Advanced VLAN capabilities ensure that guest traffic remains completely separate from critical corporate resources, maintaining security and compliance.

Product Comparison

Parameter	C1300-48P-4G	C1300-48T-4G	C1300-48FP-4G
Primary Distinction	Standard PoE+ Budget	Non-PoE (Data Only)	Full PoE+ Budget
PoE Power Budget	370W	N/A	740W
Downlink Ports	48x GE PoE+	48x GE Data	48x GE PoE+
Uplink Ports	4x 1G SFP	4x 1G SFP	4x 1G SFP
Forwarding Rate	77.38 Mpps	77.38 Mpps	77.38 Mpps
Power Consumption (110V)	450.65W (Max)	38.80W (Max)	854.45W (Max)
Fan Design	1 Fan	1 Fan	1 Fan
Unit Weight	5.43 kg	3.95 kg	6.48 kg

Selection Guide

- Select C1300-48P-4G for Standard PoE Needs** Choose this model if you need to power a typical mix of office devices (phones, standard APs) with a **370W budget**. If you are deploying power-hungry devices like PTZ cameras or high-density Wi-Fi 6E across all 48 ports, consider the **C1300-48FP-4G** (740W) instead.
- Select C1300-48P-4G for Branch Office Growth** Ideal for expanding branch offices that need **48 ports** of connectivity. The 4x SFP uplinks provide flexibility to connect to the core network via fiber, supporting longer distances than copper cabling.
- Select C1300-48P-4G for Simple Management** Perfect for organizations with limited IT staff. The support for **Cisco Business Dashboard** and the mobile app allows for plug-and-play deployment and remote monitoring without requiring CLI expertise.

Specification

Parameter	Details	Parameter	Details
Dimensions (W x D x H)	444.3 x 350 x 43.94 mm (17.49 x 13.78 x 1.73 in)	Weight	5.43 kg (11.97 lb)
Rack Units	1 RU	Mounting	Rack Mount (Kit included)
Total Ports	52	Uplink Ports	4x Gigabit SFP
Copper Downlinks	48x 10/100/1000 PoE+	PoE Budget	370W
Switching Capacity	104.0 Gbps	Forwarding Rate	77.38 Mpps
Packet Buffer	1.5 MB	MAC Address Table	16,000
CPU	ARM Dual-Core 1.5 GHz	DRAM	1 GB DDR4
Flash Memory	1 GB SLC	Jumbo Frames	Up to 9000 bytes
Operating Temperature	-5° to 50°C (23° to 122°F)	Storage Temperature	-25° to 70°C (-13° to 158°F)
Acoustic Noise (25°C)	37.3 dBA	Fan	1
MTBF	1,662,884 hours	Power Input	100-240V, 50-60 Hz, Internal
Heat Dissipation	1537.68 BTU/hr	VLANs	Up to 4094
Certification	UL 62368, CSA 22.2, CE, FCC Part 15 Class A	Warranty	Limited Lifetime

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