

— CISCO CATALYST 1300 SERIES

Cisco C1300-48P-4G Switch

48-Port Gigabit PoE+ Managed Switch

The Cisco C1300-48P-4G is a managed Layer 3 Gigabit Ethernet switch designed for small and medium-sized businesses, branch offices and growing enterprise networks. It provides 48 x 10/100/1000 Ethernet PoE+ ports, four Gigabit SFP uplinks, a 375W PoE power budget, 104 Gbps switching capacity and advanced Layer 2 and Layer 3 networking, security and management capabilities.

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48

10/100/1000 PoE+ Ports

375W

PoE Power Budget

104G

Switching Capacity

4 × SFP

Gigabit Fiber Uplinks

PRODUCT OVERVIEW

Managed Gigabit Connectivity with PoE+

The Cisco Catalyst C1300-48P-4G combines high-density Gigabit Ethernet access, PoE+ power delivery and Gigabit SFP uplinks in a rack-mountable platform. It is designed for secure office connectivity, unified communications, IP surveillance, wireless access points and other network endpoints that can receive power and data over Ethernet.

48P

48 Gigabit PoE+ Ports

Provides 48 x 10/100/1000BASE-T Ethernet ports with IEEE 802.3af and 802.3at PoE support and up to 30W per PoE+ port.

375W

High PoE Power Budget

The C1300-48P-4G provides a total PoE power budget of 375W for supported powered devices across its 48 PoE ports.

SFP

Four Gigabit SFP Uplinks

Four dedicated Gigabit SFP interfaces provide fiber or compatible copper connectivity for uplinks and network aggregation.

L3

Layer 3 Routing

Supports IPv4 and IPv6 routing, static and dynamic routing features, Layer 3 interfaces, DHCP services and policy-based routing capabilities.

SEC**Advanced Network Security**

Security capabilities include 802.1X, ACLs, DHCP snooping, Dynamic ARP Inspection, IP Source Guard, port security, RADIUS and TACACS+.

MGT**Flexible Management**

Supports Cisco Business Dashboard, Cisco Business mobile app, web-based management, SNMP, SSH, CLI, Cisco Network Plug and Play and multiple monitoring features.

01 / TECHNICAL SPECIFICATIONS**Cisco C1300-48P-4G Detailed Specifications**

The following specifications are based primarily on Cisco's current Catalyst 1300 Series documentation and the official C1300-48P-4G ordering information.

Manufacturer	Cisco Systems, Inc.
Product Family	Cisco Catalyst 1300 Series
Series	Cisco Catalyst 1300
Model	C1300-48P-4G
Product Type	Managed Layer 3 Gigabit Ethernet Switch
Network Ports	48 x 10/100/1000BASE-T Gigabit Ethernet
PoE Ports	48 ports
PoE Standard	IEEE 802.3af PoE and IEEE 802.3at PoE+

PoE Power per Port	Up to 30W per PoE+ port
Total PoE Power Budget	375W
Uplink Ports	4 x Gigabit SFP
Total System Ports	52 x Gigabit Ethernet
Switching Capacity	104 Gbps
Forwarding Rate	77.38 Mpps at 64-byte packets
Switching Architecture	Wire-speed and nonblocking
Packet Buffer	1.5 MB
MAC Address Table	16,000 addresses
Jumbo Frames	Up to 9000 bytes
VLAN Support	Up to 4094 VLANs simultaneously
Spanning Tree	802.1D STP, 802.1w RSTP, 802.1s MSTP, PVST+ and Rapid PVST+
Link Aggregation	IEEE 802.3ad LACP; up to 8 groups and up to 8 ports per group
IPv4 Routing	Wire-speed IPv4 routing with up to 990 dynamic and static routes in C1300 1G SKUs
IPv6 Routing	Wire-speed IPv6 routing

Dynamic Routing	RIP v2; OSPF is specified for C1300X SKUs
Policy-Based Routing	IPv4 and IPv6 policy-based routing
DHCP	DHCP server and DHCP relay support
Multicast	IGMP v1/v2/v3 snooping, IGMP querier and IGMP proxy
QoS	8 hardware queues with Strict Priority and Weighted Round-Robin scheduling
Security	802.1X, ACLs, DHCP snooping, IP Source Guard, Dynamic ARP Inspection, port security, RADIUS and TACACS+
Secure Management	SSH, HTTPS/SSL and Secure Copy Protocol
Management	Cisco Business Dashboard, Cisco Business mobile app, Web UI, CLI, SNMP and Cisco Network Plug and Play
SNMP	SNMP v1, v2c and v3
Console	Cisco standard RJ-45 console port and USB Type-C port
USB	USB Type-C front-panel port for file/image management and console functions
CPU	ARM dual-core 1.5 GHz
DRAM	1 GB DDR4
Flash	1 GB SLC

Front Panel Stacking	Up to 8 switches in a stack on supported Catalyst 1300 models; C1300-48P-4G is not listed among the stacking-capable models in Cisco's current specification table
Energy Efficiency	IEEE 802.3az Energy Efficient Ethernet, energy detection and cable-length detection
Power Input	100–240V AC, 50–60 Hz, internal universal power supply
Power Consumption	44.81W at 110V / 43.93W at 220V system power consumption; maximum with PoE 450.65W at 110V / 437.14W at 220V
Heat Dissipation	1537.68 BTU/hr
Operating Temperature	-5°C to 50°C (23°F to 122°F)
Cold Start Temperature	Minimum ambient temperature for cold start: 0°C (32°F)
Storage Temperature	-25°C to 70°C (-13°F to 158°F)
Operating Humidity	10% to 90%, relative, noncondensing
Storage Humidity	10% to 90%, relative, noncondensing
Acoustic Noise	37.3 dBA at 25°C
Cooling	1 fan
Mounting	Rack-mountable; 19-inch mounting brackets included with 24- and 48-port models

Dimensions (W × D × H)	444.3 × 350 × 43.94 mm (17.49 × 13.78 × 1.73 in)
Unit Weight	5.43 kg (11.97 lb)
Warranty	Limited lifetime warranty with Return-To-Factory replacement
Certifications	UL 62368, CSA 22.2, CE Mark and FCC Part 15 Class A

02 / CONNECTIVITY & POE+

48-Port Gigabit PoE+ Access Switching

The C1300-48P-4G is designed for high-density access networks where Ethernet connectivity and power delivery are required from the same switching platform. Its 48 Gigabit Ethernet ports support PoE+ and the switch provides four additional Gigabit SFP interfaces for uplink connectivity.

IP Phones

PoE+ allows compatible IP phones to receive network connectivity and electrical power through the Ethernet connection, reducing the need for separate power adapters.

Wireless Access Points

The PoE+ ports can supply supported wireless access points while the Gigabit SFP interfaces provide uplink connectivity toward the wider network infrastructure.

IP Surveillance

PoE-enabled network cameras can be connected directly to the switch, simplifying cabling and centralized network management.

Gigabit Access

All 48 access ports support 10/100/1000BASE-T, providing Gigabit Ethernet connectivity for computers, printers, servers and network appliances.

Fiber Uplinks

Centralized Power

Four Gigabit SFP ports support compatible Cisco SFP modules for fiber or copper uplink applications.

With a 375W total PoE budget, the switch can centrally power multiple compatible network endpoints from the access layer.

03 / MANAGEMENT

Flexible Cisco Network Management

Cisco provides multiple management options for Catalyst 1300 switches, allowing administrators to configure, monitor and maintain the network through graphical interfaces, mobile management, CLI and standard network-management protocols.

Cisco Business Dashboard

The embedded probe and Cisco Business Dashboard support centralized deployment, monitoring and lifecycle management for supported Cisco business networking devices.

Web-Based GUI

The integrated web interface provides configuration, monitoring, maintenance tools, wizards and dashboard functionality through a browser.

Command-Line Interface

A full CLI and text-view interface are available for administrators and partners who prefer scriptable and command-line network management.

SNMP Monitoring

SNMP v1, v2c and v3 support enables integration with network management and monitoring platforms.

Network Plug and Play

Cisco Network Plug and Play provides an integrated method for provisioning supported Cisco network devices.

Remote Management

HTTPS, SSH, SCP, SNMP and other management capabilities provide multiple options for administration and monitoring.

04 / NETWORK SECURITY

Security Features for Business Networks

The Cisco Catalyst 1300 platform includes a broad set of Layer 2 and Layer 3 security functions designed to control network admission, segment traffic and protect against common network attacks.

802.1X	RADIUS authentication, guest VLAN, unauthenticated VLAN, single/multiple host modes and dynamic VLAN assignment
DHCP Snooping	Filters DHCP messages from unexpected or untrusted interfaces
IP Source Guard	Helps prevent IP address spoofing by validating source IP information
Dynamic ARP Inspection	Validates ARP packets against learned or statically configured IP/MAC bindings
Port Security	Locks source MAC addresses to ports and limits learned MAC addresses
ACL	Supports up to 1024 rules for Catalyst 1300 1-Gigabit Ethernet SKUs
RADIUS	Supported for authentication and accounting
TACACS+	Supported for centralized authentication
SSH	Secure remote CLI access
Private VLAN	Provides Layer 2 traffic isolation between ports
Storm Control	Protection for broadcast, multicast and unknown-unicast traffic

Advanced Layer 2 and Layer 3 Capabilities

The Catalyst 1300 Series combines traditional enterprise switching functions with Layer 3 routing capabilities suitable for branch offices, SMB networks and distributed business environments.

VLAN

Supports up to 4094 VLANs simultaneously with port-based, 802.1Q, MAC-based, protocol-based and IP subnet-based VLANs.

Link Aggregation

IEEE 802.3ad LACP supports link aggregation for increased resiliency and logical bandwidth.

Spanning Tree

Supports STP, RSTP, MSTP, PVST+ and Rapid PVST+ for loop prevention and resilient Layer 2 topologies.

IPv4 Routing

Provides wire-speed IPv4 routing with static and dynamic routing capabilities.

IPv6 Routing

Wire-speed IPv6 routing and dual-stack operation support migration toward IPv6-based networks.

QoS

Eight hardware queues, classification, remarking, policing and scheduling mechanisms support traffic prioritization.

Where Cisco C1300-48P-4G Fits

With 48 PoE+ Gigabit access ports and four Gigabit SFP uplinks, the C1300-48P-4G can serve as an access-layer switch for a variety of business and branch-office deployments.

SMB Networks

Branch Offices

Suitable for offices requiring centralized Gigabit connectivity, PoE and managed switching features.

Layer 2 and Layer 3 capabilities provide a flexible platform for distributed business networks.

IP Telephony

PoE+ simplifies deployment of compatible IP phones by combining data and power over Ethernet.

Wireless Networks

PoE+ connectivity can support compatible wireless access points without requiring a separate power connection at every endpoint.

IP Surveillance

High-density PoE access supports compatible IP cameras and centralized network connectivity.

Secure Office Connectivity

VLANs, ACLs, 802.1X and Layer 2 security features support segmented and controlled business network access.

07 / PHYSICAL & SHIPPING

Dimensions, Weight and Packaging Information

Cisco officially specifies the physical dimensions and unit weight of the C1300-48P-4G. Retail carton dimensions and packed shipping weight are not specified in the Cisco product data sheet, so shipping values should be confirmed according to the actual package used by the seller.

Product Dimensions	444.3 × 350 × 43.94 mm (17.49 × 13.78 × 1.73 in)
Product Weight	5.43 kg (11.97 lb)
Rack Format	Rack-mountable, 1U height class
Mounting Brackets	19-inch mounting brackets included with 24- and 48-port models

Package Contents	Cisco Catalyst 1300 Series switch, power cord unless NO-POWER-CORD is selected, mounting kit for applicable 24/48-port models and pointer card
Retail Package Dimensions	Not officially specified by Cisco
Shipping Weight	Not officially specified by Cisco; confirm according to actual seller packaging

Shipping note: The 5.43 kg figure is the official Cisco unit weight of the C1300-48P-4G. It should not be used as the final courier chargeable weight because the carton, accessories and protective packaging add additional weight and volume.

08 / PROCUREMENT

Cisco C1300-48P-4G Ordering Information

The official Cisco ordering table identifies C1300-48P-4G as a 48-port Gigabit Ethernet switch with 30W PoE+ ports, a 375W PoE power budget and four Gigabit SFP interfaces.

Order Product ID	C1300-48P-4G
Product Description	48 x 10/100/1000 30W PoE+ ports with 375W power budget, 4 x Gigabit SFP, rack-mountable
Product Family	Cisco Catalyst 1300
Uplink Type	Gigabit SFP
Rack Mount	Yes

Before You Order Cisco C1300-48P-4G

Confirm the exact Cisco part number, required PoE capacity, SFP compatibility, power requirements, network architecture, mounting requirements and product condition before purchasing. Cisco documentation should be used as the primary reference for technical compatibility and supported features.

Important: The C1300-48P-4G is a 1-Gigabit uplink model with four Gigabit SFP ports. If your network requires 10-Gigabit SFP+ uplinks, review the Cisco C1300-48P-4X variant instead. The 4G and 4X models should not be treated as interchangeable because their uplink interfaces are different.

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Need a quote for Cisco C1300-48P-4G?

Contact NexoGet for Cisco C1300-48P-4G pricing, availability, configuration, shipping and delivery information.

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