

— CISCO CATALYST 1300 SERIES

Cisco C1300-48FP-4X

48-Port PoE+ Managed Switch

The Cisco C1300-48FP-4X is a managed Gigabit Ethernet switch designed for business and enterprise access networks. It provides 48 x 10/100/1000 Ethernet ports with 30W PoE+ support, a total 740W PoE power budget, and four 10 Gigabit SFP+ uplinks for high-bandwidth network connectivity and flexible aggregation.

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48

10/100/1000 PoE+ Ethernet Ports

740W

Total PoE Power Budget

4 × 10G

SFP+ Uplink Ports

5.16 kg

Unit Weight

PRODUCT OVERVIEW

High-Density Gigabit PoE+ Switching with 10G Uplinks

The Cisco C1300-48FP-4X combines 48 Gigabit Ethernet access interfaces with four 10 Gigabit SFP+ uplinks. Its full-power PoE+ architecture provides up to 740W of total PoE power, making it suitable for networks with a high number of powered endpoints such as IP phones, wireless access points, surveillance devices and other compatible PoE equipment.

48P

48 Gigabit Ethernet Ports

Forty-eight 10/100/1000BASE-T Ethernet ports provide high-density Gigabit access connectivity for users, endpoints and network devices.

PoE+

740W PoE+ Budget

All 48 access ports support Cisco's 802.3af and 802.3at PoE technologies with a total switch PoE budget of 740W.

10G

Four 10G SFP+ Uplinks

Four 10 Gigabit SFP+ interfaces provide high-speed uplink connectivity toward aggregation, distribution or core network infrastructure.

L2

Advanced Layer 2 Features

The Catalyst 1300 platform supports VLANs, spanning-tree technologies, link aggregation, LLDP, Cisco Discovery Protocol and other enterprise switching functions.

9000

Jumbo Frames

Cisco documentation specifies support for frame sizes up to 9000 bytes, with a default MTU of 2000 bytes.

RACK

Rack-Mountable Design

The 1RU-class chassis is designed for rack installation and is suitable for structured network closets and enterprise access deployments.

01 / TECHNICAL SPECIFICATIONS

Cisco C1300-48FP-4X Detailed Specifications

The specifications below are based primarily on Cisco documentation for the Catalyst 1300 Series and the C1300-48FP-4X model.

Manufacturer	Cisco Systems, Inc.
Product Family	Cisco Catalyst 1300 Series
Model	C1300-48FP-4X
Product Type	Managed Gigabit Ethernet Switch
Downlink Ports	48 × 10/100/1000 Gigabit Ethernet
PoE Ports	48 ports
PoE Standard	IEEE 802.3af PoE and IEEE 802.3at PoE+
Maximum PoE Per Port	Up to 30W per port
Total PoE Power Budget	740W
Uplink Ports	4 × 10 Gigabit SFP+

Uplink Speed	10 Gigabit Ethernet
Switching Architecture	Managed Layer 2 / Layer 3 switching platform
MAC Address Table	Up to 16,000 addresses for Catalyst 1300 1 Gigabit Ethernet SKUs
Jumbo Frames	Up to 9000 bytes
Default MTU	2000 bytes
Spanning Tree	IEEE 802.1D STP, 802.1w RSTP, 802.1s MSTP, PVST+ and Rapid PVST+
VLAN	IEEE 802.1Q VLAN and advanced VLAN management features
Link Aggregation	Link aggregation and LAG features for supported configurations
Discovery Protocols	Cisco Discovery Protocol and LLDP / LLDP-MED
Console	Cisco standard RJ-45 console port and USB Type-C port
USB	USB Type-C port on the front panel for file/image management and console functionality
CPU	ARM dual-core processor at 1.5 GHz
DRAM	1 GB DDR4
Flash Memory	1 GB SLC
Packet Buffer	1.5 MB aggregate dynamically shared buffer

Cabling	Unshielded Twisted Pair (UTP), Category 5e or better for 1000BASE-T
Fanless	Yes
Rack Mounting	Supported
Unit Dimensions	444.3 × 350 × 43.94 mm (W × D × H)
Dimensions in Inches	17.48 × 13.78 × 1.73 in
Unit Weight	5.16 kg (11.38 lb)
Operating Temperature	Refer to Cisco environmental specifications for the applicable installation altitude and operating conditions
Operating Humidity	Cisco environmental specifications apply

02 / POE & UPLINKS

740W PoE+ and 10 Gigabit Network Uplinks

The C1300-48FP-4X is intended for access-layer deployments where a large number of powered endpoints must be connected while maintaining high-speed uplink capacity. Cisco specifies 48 PoE-capable Gigabit Ethernet ports and a 740W PoE budget, together with four 10G SFP+ uplinks.

High-Density PoE+

The switch provides PoE+ across all 48 Gigabit Ethernet access ports. The 740W aggregate power budget makes the model appropriate for deployments with a substantial number of powered network endpoints.

Wireless Access Points

PoE+ simplifies the installation of compatible wireless access points by carrying both network data and electrical power over the Ethernet connection.

IP Telephony

The high port count and PoE+ capability make the switch suitable for enterprise IP phone deployments and other compatible powered communication endpoints.

10G Aggregation

Four 10G SFP+ interfaces provide high-speed uplinks for connecting the access switch to higher-capacity aggregation or distribution infrastructure.

03 / NETWORK MANAGEMENT

Enterprise Switching and Management Capabilities

The Cisco Catalyst 1300 family provides a broad collection of management, security, VLAN, Layer 2 and network-discovery capabilities for small and medium-sized business and enterprise access networks.

VLAN

VLAN Segmentation

VLAN capabilities can be used to separate users, voice, wireless, surveillance and other network traffic according to the network design.

STP

Spanning Tree

Cisco documents support for standard STP, RSTP, MSTP, PVST+ and Rapid PVST+ technologies.

LAG

Link Aggregation

LL

Link aggregation features can provide increased availability and bandwidth in supported network designs.