Cisco C1200-24P-4G

Datasheet

Product Overview

- The Cisco Catalyst C1200-24P-4G is a managed Layer 2/ Layer 3 static-routing switch designed for small and medium-sized business networks.
- It provides 24 10/100/1000BASE-T PoE+ ports and four Gigabit SFP uplinks in a rack-mountable 1RU chassis.
- The switch delivers wire-speed, nonblocking forwarding with 56 Gbps switching capacity and a 41.67 Mpps forwarding rate.
- All 24 copper ports support IEEE 802.3af/at PoE+ with a 195W total power budget and up to 30W per Gigabit Ethernet port until the budget is reached.
- Layer 3 static routing, VLANs, LACP, QoS, ACLs, IPv4/IPv6 support, and 802.1X security help support voice, wireless, surveillance, and data access networks.
- Cisco Business Dashboard, the Cisco Business mobile app, web management, CLI, SNMP, and Network Plug and Play provide flexible deployment and operations.

Product Highlights

- **24-Port PoE+ Access:** Twenty-four 10/100/1000BASE-T ports provide PoE+ connectivity for access points, IP phones, cameras, and other business devices.
- **195W PoE Budget:** The switch delivers up to 195W across 24 PoE-capable ports, with up to 30W available to an individual Gigabit Ethernet port until the total budget is reached.
- **Gigabit SFP Uplinks:** Four Gigabit SFP uplinks support fiber and copper SFP options for aggregation, longer-distance connections, and flexible cabling.
- **Business-Class Management and Security:** Cisco Business Dashboard, static routing, ACLs, 802.1X, RADIUS, IPv6, QoS, and Cisco Network Plug and Play simplify secure SMB deployments.

Detailed Features



C1200-24P-4G

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Component	Specification
Switching Capacity	56 Gbps
Forwarding Rate	41.67 Mpps at 64-byte packets
Ports	24 × 10/100/1000BASE-T PoE+; 4 × Gigabit SFP
PoE	802.3af/at; 195W total budget; up to 30W per Gigabit Ethernet port
Form Factor and Power	Rack-mountable; 445 × 299 × 44 mm; internal 100–240V AC, 50/60 Hz

Gigabit PoE+ Access

The C1200-24P-4G provides 24 10/100/1000BASE-T PoE+ ports for users, wireless access points, IP phones, cameras, and other powered devices. Its 195W shared budget suits branch and SMB deployments with a moderate PoE load.

Flexible Gigabit Uplink Design

Four Gigabit SFP uplinks extend the switch beyond copper access cabling. Cisco documents support for fiber and copper SFP options, allowing the same switch to connect to aggregation equipment over the medium and distance required by the site.

Wire-Speed Switching Performance

The switch is wire-speed and nonblocking, with 56 Gbps switching capacity and 41.67 Mpps forwarding performance for 64-byte packets. This provides consistent forwarding for concurrent data, voice, wireless, and surveillance traffic.

Layer 3 Static Routing

Wire-speed IPv4 and IPv6 routing, up to 32 IPv4 static routes, up to 16 IP interfaces, CIDR, DHCP relay, UDP relay, and Layer 3 interfaces on physical ports, LAGs, VLAN interfaces, or loopbacks support segmented SMB networks.

Comprehensive VLAN and Multicast Control

The switch supports up to 255 active VLANs, 802.1Q and port-based VLANs, management and guest VLANs, voice VLAN, GVRP/GARP, IGMP snooping for versions 1/2/3, IGMP querier, and loopback detection.

PoE-Aware Business Services

802.3af/at PoE+ provides up to 30W per Gigabit Ethernet port until the 195W switch budget is consumed. Time-based PoE, perpetual PoE, PoE scheduling, per-port monitoring, and power policing support connected business endpoints.

Security and QoS Controls

IEEE 802.1X, RADIUS, ACLs with up to 512 rules, port security, storm control, DoS prevention, SSH, HTTPS, secure copy, eight hardware queues, WRR, DSCP/CoS classification, and ingress/egress rate control protect and prioritize traffic.

Simple Centralized Operations

Cisco Business Dashboard with an embedded probe, Cisco Business mobile app, web UI, CLI, SNMPv1/v2c/v3, Cisco Network Plug and Play, Smartports, Auto Smartports, RMON, SCP, TFTP, syslog, and cable diagnostics support rollout and daily administration.

Technical Specifications

Product Specifications

Feature	Value
User SKU	CIS:C1200-24P-4G
Product Model	C1200-24P-4G
Product Type	Managed Gigabit PoE+ access switch
Series	Cisco Catalyst 1200 Series
Switching Capacity	56 Gbps
Forwarding Rate	41.67 Mpps at 64-byte packets
Switching Architecture	Wire-speed and nonblocking
Downlink Ports	24 × 10/100/1000BASE-T PoE+ ports
Uplink Ports	4 × Gigabit SFP ports
Total System Ports	28 × Gigabit Ethernet
PoE Standards	IEEE 802.3af and IEEE 802.3at; Cisco legacy PoE supported
PoE Budget	195W

Feature	Value
Maximum PoE per Port	30.0W per Gigabit Ethernet port until the switch budget is reached
Console and USB	Cisco standard RJ-45 console port; front-panel USB Type-C port for console and file/image management
Packet Buffer	1.5 MB aggregate, dynamically shared across ports
CPU	Dual-core ARM at 1.4 GHz
DRAM	1 GB DDR4
Flash	512 MB
Layer 2 Protocols	802.1D STP; 802.1w RSTP; 802.1s MSTP with 8 instances; PVST+ and RPVST+ with 126 instances
Link Aggregation	IEEE 802.3ad LACP; up to 4 groups; up to 8 ports per group with 16 candidate ports for each dynamic LAG
VLAN Capacity	Up to 255 active VLANs simultaneously; port-based, 802.1Q, management, guest, voice, and Auto Surveillance VLANs
Multicast	IGMP snooping v1/v2/v3; up to 255 multicast groups; IGMP querier; MLD snooping for IPv6
IPv4 Routing	Wire-speed IPv4 routing; up to 32 static routes and up to 16 IP interfaces
IPv6 Routing	Wire-speed IPv6 routing; dual IPv4/IPv6 stack; IPv6 ND, DAD, ICMPv6, and IPv6 ACL support
Layer 3 Interfaces	Physical port, LAG, VLAN interface, and loopback interface
DHCP and UDP Relay	DHCP relay and UDP relay at Layer 3
Security	HTTPS/SSL; SSH v1/v2; IEEE 802.1X; RADIUS; port security; storm control; DoS prevention; Secure Core Technology; Secure Sensitive Data
ACL	Up to 512 rules; ingress and egress; MAC, VLAN, IPv4/IPv6, protocol, port, DSCP/IP precedence, TCP/UDP, 802.1p, Ethernet type, ICMP, IGMP, TCP flag, and time-based matching
QoS	8 hardware queues; strict priority and WRR; DSCP/CoS classification; ingress policing; egress shaping and rate control
Jumbo Frames	Up to 9000 bytes; default MTU 2000 bytes
Management	Cisco Business Dashboard; Cisco Business mobile app; web UI; CLI; SNMPv1/v2c/v3; Cisco Network Plug and Play; RMON; CDP; LLDP/LLDP-MED; SCP; TFTP; syslog; SNTP; ping; traceroute; cable diagnostics

Feature	Value
Energy Efficiency	IEEE 802.3az EEE; energy detect; cable-length detection; port LED disable; time-based port operation; time-based PoE
Supported 1G SFP Options	MGBSX1; MGBLH1; MGBLX1; MGBT1; GLC-SX-MMD; GLC-LH-SMD; GLC-BX-U; GLC-BX-D; GLC-TE
Dimensions (W × D × H)	445 × 299 × 44 mm (17.5 × 11.77 × 1.73 in)
Unit Weight	3.53 kg (7.78 lb)
Power	Internal universal 100–240V AC, 50–60 Hz
Operating Temperature	23° to 122°F (−5° to 50°C)
Storage Temperature	−13° to 158°F (−25° to 70°C)
Operating Humidity	10% to 90%, relative, noncondensing
Storage Humidity	10% to 90%, relative, noncondensing
Cooling and Noise	Fanless
MTBF	698,220 hours at 25°C
Power Consumption	110V: 25.9W system / 235.2W with PoE / 13.5W idle; 220V: 27.5W system / 230.8W with PoE / 14.8W idle
Certifications	UL 62368; CSA 22.2; CE mark; FCC Part 15 Class A

Product Comparison

Feature	Cisco C1200-24P-4G	Cisco C1200-24FP-4G	Cisco C1200-24T-4G	Cisco C1200-24P-4X
Downlink ports	24 × 10/100/1000 PoE+	24 × 10/100/1000 PoE+	24 × 10/100/1000 data	24 × 10/100/1000 PoE+
Uplink ports	4 × Gigabit SFP	4 × Gigabit SFP	4 × Gigabit SFP	4 × 10G SFP+
Switching capacity	56 Gbps	56 Gbps	56 Gbps	128 Gbps
Forwarding rate	41.67 Mpps	41.67 Mpps	41.67 Mpps	95.23 Mpps
PoE budget	195W	375W	Not applicable	195W
PoE-capable ports	24	24	0	24
Packet buffer	1.5 MB	1.5 MB	1.5 MB	1.5 MB
Dimensions (W × D × H)	445 × 299 × 44 mm	445 × 345 × 44 mm	445 × 240 × 44 mm	445 × 299 × 44 mm

Feature	Cisco C1200-24P-4G	Cisco C1200-24FP-4G	Cisco C1200-24T-4G	Cisco C1200-24P-4X
Unit weight	3.53 kg	4.6 kg	2.63 kg	3.68 kg
Cooling	Fanless	1 fan; 34.8 dBA at 25°C	Fanless	Fanless
Best-fit role	Moderate-PoE Gigabit access with 1G SFP uplinks	Full-PoE Gigabit access with 1G SFP uplinks	Non-PoE Gigabit access	Moderate-PoE access with 10G SFP+ uplinks

Accessories

Category	Accessories
Included Accessories	No separate included accessories listed in the official Cisco documentation
Optional Accessories	Cisco-compatible 1G SFP options: MGBSX1; MGBLH1; MGBLX1; MGBT1; GLC-SX-MMD; GLC-LH-SMD; GLC-BX-U; GLC-BX-D; GLC-TE

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