Cisco C1300-24P-4X

Datasheet

Product Overview

- The Cisco Catalyst C1300-24P-4X is a fixed, managed Layer 3 Gigabit Ethernet switch for small and medium-sized businesses, branch offices, and campus access networks.
- It provides 24 10/100/1000BASE-T PoE+ ports and four 10G SFP+ uplinks that also support 1G operation for high-speed aggregation and flexible migration.
- With 128 Gbps switching capacity and 95.23 Mpps forwarding performance, it delivers wire-speed, nonblocking connectivity for high-traffic access and aggregation-edge deployments.
- All 24 copper ports support IEEE 802.3af and 802.3at PoE+ with a shared 195W power budget and up to 30W per port, supporting access points, IP phones, cameras, and other powered endpoints.
- Layer 2 and Layer 3 capabilities include VLANs, LACP, STP, IPv4 and IPv6 routing, ACLs, 802.1X, QoS, IGMP snooping, and DHCP security controls.
- Hardware stacking for up to eight compatible switches, Cisco Business Dashboard, Network Plug and Play, web management, CLI, and SNMP support scalable and centralized operations.

Product Highlights

- **24-Port PoE+ Access:** Twenty-four 10/100/1000BASE-T ports provide Gigabit access and 30W PoE+ service for wireless access points, IP phones, cameras, and other powered endpoints.
- **10G SFP+ Uplinks:** Four 10G SFP+ uplinks support 10G and 1G operation, providing a practical path from Gigabit access to higher-bandwidth aggregation.
- **Hardware Stacking:** The C1300-24P-4X supports hardware stacking with up to eight compatible switches, fast stack failover, and centralized management for larger access deployments.
- **High-Performance Layer 3 Access:** 128 Gbps switching, 95.23 Mpps forwarding, expanded routing capacity, 32,000 MAC entries, and 2,048 ACL rules support high-traffic and segmented networks.

Detailed Features



C1300-24P-4X

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Component	Specification
Model	Cisco Catalyst C1300-24P-4X
Port Configuration	24 × 10/100/1000BASE-T PoE+ ports, 4 × 10G SFP+ uplinks
Switching Capacity	128 Gbps
Forwarding Rate	95.23 Mpps at 64-byte packets
PoE Budget	195 W total, up to 30 W per PoE+ port

Managed Gigabit Access with 10G Uplinks

The C1300-24P-4X combines 24 Gigabit PoE+ access ports with four 10G SFP+ uplinks. The uplink ports also support 1G operation, allowing integrators to deploy the switch in existing Gigabit networks and increase aggregation bandwidth as the network grows.

Wire-Speed High-Bandwidth Switching

The switch provides 128 Gbps switching capacity and 95.23 Mpps forwarding performance for 64-byte packets. Its nonblocking architecture supports concurrent data, voice, wireless, surveillance, and other edge traffic without making the uplink design the immediate bottleneck.

Moderate-Density PoE+ Deployment

All 24 copper ports support 802.3af and 802.3at PoE+ with a 195W shared budget and up to 30W per port. This supports common branch and campus endpoints while keeping power delivery centralized in a rack-mountable 1RU switch.

Expanded 10G-SKU Routing Resources

As a Catalyst 1300 10 Gigabit Ethernet SKU, the model supports up to 7,168 dynamic and static IPv4 routes, up to 256 IP interfaces, and wire-speed IPv4 and IPv6 routing. RIP v2, policy-based routing, DHCP relay, and flexible Layer 3 interfaces support segmented deployments.

Hardware Stacking for Resilience

The C1300-24P-4X supports up to eight compatible switches in a stack. Fast stack failover, active and standby control, auto-numbering, hot swap, ring and chain options, and LAG across multiple units help simplify larger access-layer designs.

Security for Business Access

IEEE 802.1X, RADIUS and TACACS+, port security, DHCP snooping, IP Source Guard, Dynamic ARP Inspection, BPDU Guard, Root Guard, storm control, and ACLs help control admission and reduce common access-layer threats. HTTPS, SSH, Secure Copy, Secure Core Technology, and Secure Sensitive Data protect management and configuration information.

QoS and Multicast Handling

Eight hardware queues, strict-priority and WRR scheduling, DSCP and CoS classification, ingress policing, egress shaping, IGMP snooping, IGMP querier, and MLD snooping help prioritize voice, video, and other latency-sensitive traffic while limiting unnecessary multicast forwarding.

Centralized Deployment and Efficient Operation

Cisco Business Dashboard with an embedded probe, Cisco Business mobile app, Network Plug and Play, web UI, CLI, SNMPv1/v2c/v3, RMON, LLDP-MED, CDP, SCP, TFTP, syslog, SNTP, cable diagnostics, IEEE 802.3az, energy detection, and scheduled PoE support deployment and daily operations.

Technical Specifications

Product Specifications

Feature	Value
Product Series	Cisco Catalyst 1300 Series
Model	C1300-24P-4X
Device Type	Fixed managed Layer 3 Gigabit Ethernet switch with 10G uplinks
Downlink Ports	24 × 10/100/1000BASE-T PoE+ ports
Uplink Ports	4 × 10G SFP+ ports, support 10G and 1G operation
Total System Ports	24 × Gigabit Ethernet plus 4 × 10G Ethernet
Switching Capacity	128 Gbps
Forwarding Rate	95.23 Mpps at 64-byte packets
Switching Architecture	Wire-speed and nonblocking

Feature	Value
PoE Standards	IEEE 802.3af PoE, IEEE 802.3at PoE+, and Cisco pre-standard legacy PoE
PoE Ports	24
PoE Power Budget	195 W
Maximum PoE per Port	30 W per port within the switch power budget
MAC Address Table	32,000 rules
Packet Buffer	1.5 MB aggregate, dynamically shared across ports
CPU	ARM dual-core at 1.5 GHz
DRAM	1 GB DDR4
Flash	512 MB SLC
Layer 2 Protocols	802.1D STP, 802.1w RSTP, 802.1s MSTP, PVST+, and RPVST+
Link Aggregation	IEEE 802.3ad LACP, up to 8 groups, up to 8 ports per group with 16 candidate ports for each dynamic group
VLAN	Up to 4094 VLANs, including port-based, 802.1Q, MAC-based, protocol-based, IP subnet-based, management, private, guest, voice, and surveillance VLANs
Multicast	IGMP snooping v1/v2/v3, up to 4000 multicast groups, IGMP querier, and IGMP proxy
IPv4 Routing	Wire-speed IPv4 routing, up to 7168 dynamic and static routes, and up to 256 IP interfaces
IPv6 Routing	Wire-speed IPv6 routing with dual IPv4/IPv6 stack and IPv6 first-hop security
Routing Protocols	RIP v2, policy-based routing, CIDR, DHCP relay, and UDP relay
Layer 3 Interfaces	Physical port, LAG, VLAN interface, and loopback interface
Security	IEEE 802.1X, RADIUS, TACACS+, port security, DHCP snooping, IP Source Guard, Dynamic ARP Inspection, BPDU Guard, Root Guard, storm control, DoS prevention, SSH, and HTTPS
ACL	Up to 2048 rules with ingress and egress application, time-based rules, IPv4/IPv6, MAC, VLAN, protocol, port, DSCP, 802.1p, ICMP, IGMP, and TCP flag matching
QoS	8 hardware queues, strict priority, WRR, DSCP and CoS classification, ingress policing, egress shaping, and rate control
Jumbo Frames	Up to 9000 bytes; default MTU 2000 bytes

Feature	Value
Management	Cisco Business Dashboard, Cisco Business mobile app, Network Plug and Play, web UI, CLI, SNMPv1/v2c/v3, RMON, CDP, LLDP/LLDP-MED, SCP, TFTP, syslog, SNTP, ping, traceroute, and cable diagnostics
Energy Efficiency	IEEE 802.3az EEE, energy detect, cable-length detection, port LED disable, time-based port operation, and time-based PoE
Stacking	Hardware stacking up to 8 compatible switches; C1300 Family 1
Fan	Fanless
Dimensions (W × D × H)	444.3 × 299 × 43.94 mm (17.49 × 11.77 × 1.73 in)
Unit Weight	3.95 kg (8.70 lb)
Power Supply	Internal universal AC, 100–240V, 50–60 Hz
Operating Temperature	−5° to 50°C
Storage Temperature	−25° to 70°C
Operating Humidity	10% to 90%, relative, noncondensing
Storage Humidity	10% to 90%, relative, noncondensing
MTBF	337,232 hours at 25°C
System Power Consumption	110V: 31.4W; 220V: 31.8W
Power Consumption with PoE	110V: 235.8W; 220V: 232.9W
Idle Power	110V: 13.9W; 220V: 14.8W
Heat Dissipation	804.1 BTU/hr
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3ad, 802.3z, 802.3x, 802.1D, 802.1Q/p, 802.1w, 802.1s, 802.1X, 802.3af, 802.3at, 802.1AB, and 802.3az

Product Comparison

Feature	Cisco C1300-24P-4X	Cisco C1300-24P-4G	Cisco C1300X-24P-4X
Downlink ports	24 × 10/100/1000 PoE+	24 × 10/100/1000 PoE+	24 × 10/100/1000 PoE+
Uplink ports	4 × 10G SFP+ supporting 10G and 1G	4 × Gigabit SFP	4 × 10G SFP28, 10G uplink and 25G available for stacking only
Switching capacity	128 Gbps	56 Gbps	128 Gbps

Feature	Cisco C1300-24P-4X	Cisco C1300-24P-4G	Cisco C1300X-24P-4X
Forwarding rate	95.23 Mpps	41.67 Mpps	95.23 Mpps
PoE budget	195W	195W	385W
Maximum PoE per port	30W	30W	30W
Packet buffer	1.5 MB	1.5 MB	3 MB
MAC address table	32,000 rules	16,000 addresses	32,000 rules
IPv4 routes and interfaces	7168 routes and 256 interfaces	990 routes and 128 interfaces	7168 routes and 256 interfaces
ACL rules	2048	1024	3072
Stacking	Up to 8 compatible switches	Not supported	Up to 8 compatible switches
Fan	Fanless	Fanless	1 fan, 44.5 dBA at 25°C
Dimensions (W × D × H)	444.3 × 299 × 43.94 mm	444.3 × 299 × 43.94 mm	444.3 × 270 × 43.94 mm
Unit weight	3.95 kg	3.53 kg	3.96 kg
Best-fit role	PoE+ Gigabit access with 10G fiber aggregation and stacking	PoE+ Gigabit access with 1G fiber uplinks	Higher-power PoE+ access with 10G uplinks and stacking

Accessories

Category	Accessories
Included Accessories	Power cord
19-inch mounting kit	
Pointer card	
Optional Accessories	CAB-CONSOLE-RJ45 console cable, 6 feet with RJ-45
CAB-CONSOLE-USB-C= USB-C console cable	
GLC-LH-SMD 1G SFP LX/LH module	
GLC-SX-MMD 1G SFP SX module	
SFP-10G-SR or SFP-10G-LR 10G SFP+ modules	

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