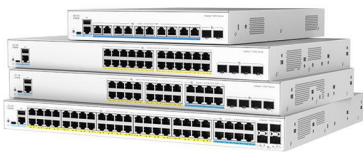


Cisco Catalyst 1300X-24T-4X (C1300X-24T-4X)

Cisco Catalyst 1300X-24T-4X - Switch - L3 - Managed - 4 x 10 Gigabit SFP28 + 24 x 10/100/1000Base-T - rack-mountable



The Cisco Catalyst 1300X-24T-4X is engineered for high-performance network environments, delivering switching capacity and reliable connectivity. This switch supports up to 128 Gbps switching capacity and maintains a forwarding rate of 95.23 Mpps, suitable for demanding applications. It offers robust support for VLAN entries, ensuring efficient network segmentation and management while accommodating various protocols for versatility in routing and processing tasks. Designed with a focus on reliability, the Cisco Catalyst 1300X-24T-4X operates optimally in diverse environmental conditions, ranging from -5°C to 50°C. The switch is also rack-mountable, making it a choice for space-constrained setups. Additional features such as IGMP snooping, port security, and DoS protection enhance network security and performance, ensuring a stable experience for a wide array of users and devices within the network infrastructure.

Key Selling Points

- Supports up to 128 Gbps switching capacity
- Equipped with 24 ports for extensive connectivity
- Robust VLAN support for efficient network management
- Advanced security features including DoS protection
- Designed for reliable operation with a wide temperature range

Product Features

- Robust capacity for efficient management**
The switch supports a maximum of 4000 VLAN entries, enabling effective network segmentation and organization. This feature is essential for managing large networks where traffic needs to be logically separated for performance and security.
- High availability for critical operations**
Featuring support for various storm control mechanisms, such as multicast and broadcast storm control, this switch ensures high availability of the network. It minimizes the risks associated with traffic bottlenecks and ensures consistent performance.
- Advanced security measures for protection**
The implementation of RADIUS and TACACS+ authentication methods provides enhanced security for user access. These protocols help to protect network access while maintaining administrative control over user permissions.
- Extensive performance capabilities**
With a substantial packet buffer size of 3 MB, the Cisco Catalyst 1300X-24T-4X can effectively handle high volumes of simultaneous traffic, ensuring smooth data flow in busy network environments.
- Flexible remote management options**
This switch supports multiple remote management protocols, including SNMP, Telnet, and SSH, allowing for seamless network monitoring and administration. These options facilitate network management from various locations, promoting easy accessibility.

Main specifications

Product Description	Cisco Catalyst 1300X-24T-4X - switch - 24 ports - Managed - rack-mountable
Device Type	Switch - 24 ports - L3 - Managed - stackable
Enclosure Type	Rack-mountable
Subtype	Gigabit Ethernet
Ports	4 x 10 Gigabit SFP28 + 24 x 10/100/1000Base-T
Performance	Forwarding rate (64-byte packets): 95.23 Mpps Switching capacity: 128 Gbps
Capacity	MSTP instances: 16 RPVST+ instances: 126 Link aggregation groups: 8 Link aggregation ports: 16 VLAN entries: 4094 IGMP multicast groups: 4000 IPv4 routes: 7168 IPv4 interfaces: 256 ACL rules: 3072 Priority queues: 8 Packet buffer size: 3 MB
MAC Address Table Size	32000 entries
Jumbo Frame Support	9000 bytes
Routing Protocol	STP, static IP routing, RSTP, MSTP, IGMP, IGMPv2, IGMPv3, CIDR, RIP-2, policy-based routing (PBR), MLD, MLDv2, OSPF
Remote Management Protocol	CLI, SNMP, Telnet, SSH, SSH-2, DHCP, SCP, HTTPS, HTTP, ICMP, TFTP, Syslog, SNMP 2c, SNMP 3, RMON

Features	VLAN support, STP support, CLI management, ATP, FHS, QoS, sFlow, dynamic routing, Zero-Touch Deployment, Port Security, Web authentication, Address Resolution Protocol, ARP inspection, IP source guard, DHCP snooping, IPMB, NDP, router advertisement guard, DHCPv6 guard, layer 3 routing, LAG, port mirroring, eco-friendly button, EEE, RSTP, MSTP support, PVST+, RPVST+, LACP, Protocol-based VLANs support, MAC based VLAN, VLAN management, Private VLAN, PVE, Guest VLAN, GVRP, CPE VLAN, Auto Surveillance VLAN, MVR, Q-in-Q tunnelling, TPID, GARP, UDLD, DHCP relay, DHCP server, IGMP snooping, IGMP querier, IGMP proxy, HoL Blocking Prevention, loopback detection, ACL support, BOOTP support, UDP, High Availability, MAC address authentication, BPDU Guard, STP Root Guard, STP loop guard, DAI, DoS protection, SCT, SSD, trustworthy systems, Broadcast Storm Control, Multicast Storm Control, Storm Control, Unicast Storm Control, Unknown Storm Control, DoS attack prevention, WRR, ToS, DSCP based CoS, DiffServ support, TCP congestion, iSCSI traffic optimisation, path MTU discovery, DAD, RA guard, MLD snooping, MLD proxy, Telnet server, DNS client, Telnet client, DHCP client, Cisco NG PnP Protocol, IPv4 and IPv6 dual stack, VLAN mirroring, RSPAN, SCP, chip guard, boot integrity, time-based port operation, cable length detection, LLDP, LLDP-MED, reset button
Compliant Standards	IEEE 802.1p, IEEE 802.1x, IEEE 802.3az, IEEE 802.1D, IEEE 802.1w, IEEE 802.1s, IEEE 802.3ad (LACP), IEEE 802.1Q, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.3an, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z
Power	AC 100-240 V (50 - 60 Hz)
Dimensions (WxDxH)	44.43 cm x 27 cm x 4.394 cm
Weight	3.28 kg
Manufacturer Warranty	Limited lifetime warranty

Extended specification

General

Device Type	Switch - 24 ports - L3 - Managed - stackable
Enclosure Type	Rack-mountable
Subtype	Gigabit Ethernet
Ports	4 x 10 Gigabit SFP28 + 24 x 10/100/1000Base-T
Performance	Forwarding rate (64-byte packets): 95.23 Mpps Switching capacity: 128 Gbps
Capacity	MSTP instances: 16 RPVST+ instances: 126 Link aggregation groups: 8 Link aggregation ports: 16 VLAN entries: 4094 IGMP multicast groups: 4000 IPv4 routes: 7168 IPv4 interfaces: 256 ACL rules: 3072 Priority queues: 8 Packet buffer size: 3 MB
MAC Address Table Size	32000 entries
Jumbo Frame Support	9000 bytes
Max Units In A Stack	8
Routing Protocol	STP, static IP routing, RSTP, MSTP, IGMP, IGMPv2, IGMPv3, CIDR, RIP-2, policy-based routing (PBR), MLD, MLDv2, OSPF
Remote Management Protocol	CLI, SNMP, Telnet, SSH, SSH-2, DHCP, SCP, HTTPS, HTTP, ICMP, TFTP, Syslog, SNMP 2c, SNMP 3, RMON
Encryption Algorithm	MD5, SSL
Authentication Method	RADIUS, TACACS+
Features	VLAN support, STP support, CLI management, ATP, FHS, QoS, sFlow, dynamic routing, Zero-Touch Deployment, Port Security, Web authentication, Address Resolution Protocol, ARP inspection, IP source guard, DHCP snooping, IPMB, NDP, router advertisement guard, DHCPv6 guard, layer 3 routing, LAG, port mirroring, eco-friendly button, EEE, RSTP, MSTP support, PVST+, RPVST+, LACP, Protocol-based VLANs support, MAC based VLAN, VLAN management, Private VLAN, PVE, Guest VLAN, GVRP, CPE VLAN, Auto Surveillance VLAN, MVR, Q-in-Q tunnelling, TPID, GARP, UDLD, DHCP relay, DHCP server, IGMP snooping, IGMP querier, IGMP proxy, HoL Blocking Prevention, loopback detection, ACL support, BOOTP support, UDP, High Availability, MAC address authentication, BPDU Guard, STP Root Guard, STP loop guard, DAI, DoS protection, SCT, SSD, trustworthy systems, Broadcast Storm Control, Multicast Storm Control, Storm Control, Unicast Storm Control, Unknown Storm Control, DoS attack prevention, WRR, ToS, DSCP based CoS, DiffServ support, TCP congestion, iSCSI traffic optimisation, path MTU discovery, DAD, RA guard, MLD snooping, MLD proxy, Telnet server, DNS client, Telnet client, DHCP client, Cisco NG PnP Protocol, IPv4 and IPv6 dual stack, VLAN mirroring, RSPAN, SCP, chip guard, boot integrity, time-based port operation, cable length detection, LLDP, LLDP-MED, reset button
Compliant Standards	IEEE 802.1p, IEEE 802.1x, IEEE 802.3az, IEEE 802.1D, IEEE 802.1w, IEEE 802.1s, IEEE 802.3ad (LACP), IEEE 802.1Q, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.3an, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z
Processor	X ARM: 1.5 GHz
RAM	2 GB DDR4 SDRAM
Flash Memory	1 GB

Built-in Devices	1 x fan
Status Indicators	System, link/activity/speed

Expansion / Connectivity

Interfaces	24 x 1000Base-T RJ-45 ¦ 4 x 10GBase-X SFP28 uplink ¦ 1 x console RJ-45 ¦ 1 x USB-C console
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Manufacturer Warranty

Service & Support	Limited warranty - return to factory - lifetime ¦ Technical support - consulting - 1 year
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Miscellaneous

Included Accessories	Pointer card, mounting kit
MTBF	458,135 hours
Compliant Standards	Plug and Play, UL 62368, CSA 22.2, FCC CFR47 Part 15 A, WEEE

Power

Power Device	Internal power supply
Voltage Required	AC 100-240 V (50 - 60 Hz)

Environmental Parameters

Min Operating Temperature	-5 °C
Max Operating Temperature	50 °C
Humidity Range Operating	10 - 90% RH (non-condensing)
Min Storage Temperature	-25 °C
Max Storage Temperature	70 °C
Humidity Range Storage	10 - 90% RH (non-condensing)

Dimensions & Weight

Width	44.43 cm
Depth	27 cm
Height	4.394 cm
Weight	3.28 kg

What's in the box

- Cisco Catalyst 1300X-24T-4X
- Mounting kit, pointer card

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet