

Cisco Catalyst 1300X-48NGU-4X (C1300X-48NGU-4X)

Cisco Catalyst 1300X-48NGU-4X - Switch - L3 - Managed - 4 x 10 Gigabit SFP28 + 8 x 1/2.5/5GBase-T (PoE++) + 40 x 10/100/1000 (PoE+) - rack-mountable - PoE++ (740 W)

The Cisco Catalyst 1300X-48NGU-4X switch delivers a robust and efficient network management solution suitable for demanding enterprise environments. With a switching capacity of 240 Gbps and a forwarding rate of 178.57 Mpps, it ensures high-performance connectivity for up to 48 ports. Designed for flexibility, the switch supports advanced features such as VLAN management, port security, and storm control, allowing for effective traffic management and network reliability. Its stackable form factor enhances scalability, accommodating up to 8 units in a stack for growing network needs.

Key Selling Points

- Supports 48 ports with extensive VLAN entries
- Switching capacity of 240 Gbps and forwarding rate of 178.57 Mpps
- Comprehensive security features including port security and storm control
- Manages up to 32,000 MAC addresses for extensive networking
- Stackable design allowing for up to 8 units for increased capacity

Product Features

- Efficient performance**
The switch has a switching capacity of 240 Gbps along with a forwarding rate of 178.57 Mpps, ensuring rapid data transfer across connected devices.
- Robust management capabilities**
Equipped with functionalities like VLAN support, DHCP snooping, and storm control, this switch enables effective monitoring and management of network traffic.
- Extensive scalability**
The Cisco Catalyst 1300X allows stacking up to 8 units, providing flexibility and additional capacity for growing networks.
- Advanced security features**
Includes multiple security protocols like RADIUS, SSH, and ACL support, ensuring protection against unauthorized access and network threats.
- Reliable eco-friendly operation**
Designed with an energy-efficient Ethernet feature and a dedicated eco-friendly button, this switch enables greener network management.

Main Specifications

Product Description	Cisco Catalyst 1300X-48NGU-4X - switch - 48 ports - Managed - rack-mountable
Device Type	Switch - 48 ports - L3 - Managed - stackable
Enclosure Type	Rack-mountable
Subtype	Gigabit Ethernet
Ports	4 x 10 Gigabit SFP28 + 8 x 1/2.5/5GBase-T (PoE++) + 40 x 10/100/1000 (PoE+)
Power Over Ethernet (PoE)	PoE++
PoE Budget	740 W
Performance	Forwarding rate (64-byte packets): 178.57 Mpps Switching capacity: 240 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: 8 MB Link aggregation groups: up to 8 Link aggregation ports per channel: up to 8
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, RIP, OSPFv2, OSPFv3
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, persistent PoE, SSD
Compliant Standards	IEEE 802.1p, IEEE 802.1x, IEEE 802.1D, IEEE 802.1w, IEEE 802.1s, IEEE 802.1Q, IEEE 802.1ab (LLDP), IEEE 802.3, IEEE 802.3ad (LACP), IEEE 802.3ae, IEEE 802.3an, IEEE 802.3at, IEEE 802.3az, IEEE 802.3bt, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3z
Power	AC 100-240 V (50 - 60 Hz)
Dimensions (WxDxH)	44.43 cm x 34 cm x 4.394 cm
Weight	5.15 kg
Manufacturer Warranty	Limited lifetime warranty

Extended Specification

General

Device Type	Switch - 48 ports - L3 - Managed - stackable
Enclosure Type	Rack-mountable
Subtype	Gigabit Ethernet
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Power Over Ethernet (PoE)	PoE++
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MAC Address Table Size	32000 entries
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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, RIP, OSPFv2, OSPFv3
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+, Secure Shell (SSH), Secure Shell v.2 (SSH2)
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, persistent PoE, SSD
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Processor	X ARM: 1.5 GHz
RAM	2 GB DDR4 SDRAM
Flash Memory	1 GB
Built-in Devices	2 x fans
Status Indicators	System, link/activity/speed, PoE

Expansion / Connectivity

Interfaces	40 x 10/100/1000 Base-T (PoE+) RJ-45 PoE+ - 30 W ¦ 8 x 100/1000/2.5G/5GBase-T RJ-45 PoE++ - 60 W ¦ 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 - 1 year
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Miscellaneous

Included Accessories	Pointer card, mounting kit
MTBF	216,091 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	34 cm
Height	4.394 cm
Weight	5.15 kg

What's in the box

Cisco Catalyst 1300X-48NGU-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