

Cisco Catalyst 8300-1N1S-4T2X (C8300-1N1S-4T2X)

Cisco Catalyst 8300-1N1S-4T2X - Router 10GbE - rack-mountable - for P/N: C8300-DNA



The Catalyst 8300 Series is purpose-built for high performance and integrated SD-WAN Services along with flexibility to deliver security and networking services together from the cloud or on premises. It provides higher WAN port density and a redundant power supply capability. The Catalyst 8300 Series Edge Platforms have a wide variety of interface options. Powered by Cisco IOS XE, fully programmable software architecture, and API support, these platforms can facilitate automation at scale to achieve zero-touch IT capability while migrating workloads to the cloud. Catalyst 8300 Series Edge Platforms also come with Trustworthy Solutions 2.0 infrastructure that secures the platforms against threats and vulnerabilities with integrity verification and remediation of threats. The Catalyst 8300 Series Edge Platforms are well suited for offices for high WAN IPsec performance with integrated SD-WAN services.

Key Selling Points

High-performance multicore processors support high-speed WAN connections
Dynamic core allocation architecture that can leverage data plane cores for I/O and service plane as per-user configuration
Up to 5 Gbps of IPsec Internet Mix (IMIX) traffic
Increases scalability for IPsec throughput needs for medium- and large-sized branches
SSL and crypto hardware acceleration
Provides 6 built-in 10/100/1000/10G Ethernet ports for WAN or LAN
Supports SM, NIM, and Pluggable Interface Module (PIM) slots

Product Features

SASE-ready
Catalyst 8300 supports SD-WAN with on-premises and cloud-delivered security.
Advanced network intelligence
Get advanced network assurance and multipath steering for cloud applications.
A connected experience
Prepare for the applications and services with visibility and control.

Main specifications

Product Description	Cisco Catalyst 8300-1N1S-4T2X - router - rack-mountable
Device Type	Router
Enclosure Type	Rack-mountable - 1U
Data Link Protocol	10 Gigabit Ethernet, Gigabit Ethernet
Performance	VPN throughput (IMIX IPsec): 5 Gbps VPN throughput (1400 B IPsec): 15 Gbps IPv4 forwarding throughput (1400-byte packet size): 19.7 Gbps
Capacity	Maximum overlay tunnels: 6000 ACL: 4000 Access Control Entries (ACEs) per system (IPv4): 72000 IPv4 routes: 1600000 IPv6 routes: 1500000 Queues: 16000 NAT sessions: 1200000 Firewall sessions: 512000 Virtual Routing and Forwarding (VRF) entries: 4000
Network / Transport Protocol	IPsec, NTP, DNS, DHCP, RSVP, RTCP, PPPoE, L2TPv3
Routing Protocol	Policy-based routing (PBR), GRE, OSPF, BGP, VRRP, MPLS, OSPFv3, RIP, RIP-2, EIGRP, IS-IS, IGMPv3, HSRP, DVMRP, Bidirectional Forwarding Detection (BFD)
Remote Management Protocol	OMP, SNMP, SCP
VoIP Protocols	S RTP
Features	URL filtering, AAA, QoS, CoS, FEC, HQoS, WRED, FNF, NBAR, AAR, DTLS, DHCP client, DHCP server, Syslog support, NAT support, PAT support, ACL support, BFD, CAC, IVR, SAF, CBWFQ, HDLC, MLFR, MLPPP, PPP, PIM, SSM, ERSPAN, Cisco IPSLA, EEM, EVC, AVC
Compliant Standards	IEEE 802.1Q, IEEE 802.1ag, IEEE 802.3ah
Dimensions (WxDxH)	44.5 cm x 41.3 cm x 4.39 cm
Weight	9.07 kg
System Requirements	Cisco IOS XE 17.3.2
Designed For	P/N: C8300-DNA

Extended specification

General

Device Type	Router
Enclosure Type	Rack-mountable - 1U
Connectivity Technology	Wired
Data Link Protocol	10 Gigabit Ethernet, Gigabit Ethernet
Performance	VPN throughput (IMIX IPsec): 5 Gbps VPN throughput (1400 B IPsec): 15 Gbps IPv4 forwarding throughput (1400-byte packet size): 19.7 Gbps
Capacity	Maximum overlay tunnels: 6000 ACL: 4000 Access Control Entries (ACEs) per system (IPv4): 72000 IPv4 routes: 1600000 IPv6 routes: 1500000 Queues: 16000 NAT sessions: 1200000 Firewall sessions: 512000 Virtual Routing and Forwarding (VRF) entries: 4000
Network / Transport Protocol	IPSec, NTP, DNS, DHCP, RSVP, RTCP, PPPoE, L2TPv3
Routing Protocol	Policy-based routing (PBR), GRE, OSPF, BGP, VRRP, MPLS, OSPFv3, RIP, RIP-2, EIGRP, IS-IS, IGMPv3, HSRP, DVMRP, Bidirectional Forwarding Detection (BFD)
Remote Management Protocol	OMP, SNMP, SCP
Encryption Algorithm	PKI, 256-bit AES-CBC, 256-bit AES-GCM, IKE, 2048-bit RSA, ECDSA 256-bit, ECDSA 384-bit, ESP, HMAC, SHA-1, SHA-2, TLS, DES, 1024-bit RSA, 128-bit AES, 256-bit SHA, 384-bit SHA, 512-bit SHA, 748-bit RSA, MD5, Triple DES
Authentication Method	Secure Shell (SSH), RADIUS
Features	URL filtering, AAA, QoS, CoS, FEC, HQoS, WRED, FNF, NBAR, AAR, DTLS, DHCP client, DHCP server, Syslog support, NAT support, PAT support, ACL support, BFD, CAC, IVR, SAF, CBWFQ, HDLC, MLFR, MLPPP, PPP, PIM, SSM, ERSPAN, Cisco IPSLA, EEM, EVC, AVC
Compliant Standards	IEEE 802.1Q, IEEE 802.1ag, IEEE 802.3ah, UL 60950-1, CAN/CSA C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, AS/NZS 60950-1, IEC/EN 60825, FDA, AS/NZS CISPR 32 Class A, CISPR 32 Class A, CNS 13438 Class A, EN 300 386, EN 55032, EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN55024, FCC CFR47 Part 15 B Class A, ICES-003 Class A, IEC 61000-3-2, IEC 61000-3-3, IEC/EN 61000-4-11, IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, KN32 Class A, KN35
Processor	Intel
RAM	8 GB
Flash Memory	8 GB
Hard Drive	16 GB

Expansion / Connectivity

Interfaces	WAN / LAN: 2 x 10Gb Ethernet WAN / LAN: 4 x Ethernet 1000 USB: 1 x
Expansion Slots	1 (total) / 1 (free) x service module (SM) 1 (total) / 1 (free) x NIM
Installed Modules Qty (Max)	0 (installed) / 2 (max)

Miscellaneous

MTBF	536,060 hours
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Power

Power Device	Internal power supply
Installed Qty	1 (max)

Software / System Requirements

OS Required	Cisco IOS XE 17.3.2
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	40 °C
Humidity Range Operating	5 - 85% (non-condensing)

Dimensions & Weight

Width	44.5 cm
Depth	41.3 cm

Height	4.39 cm
Weight	9.07 kg

IP Telephony

VoIP Protocols	SRTP
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Compatibility Information

Designed For	P/N: C8300-DNA
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