

CX-NPA-48GS40D-L3

48 PORT MANAGED POE SWITCH WITH 4 SFP+



PRODUCT OVERVIEW



The CX-NPA-48GS40D-L3 is a high-performance Layer 3 Managed switch engineered to provide robust and scalable network solutions for demanding environments. With its advanced features and durable design, this switch ensures optimal network performance and reliability.

FEATURES

- **IEEE 802.3at/af/bt Compliance:** Supports IEEE 802.3at/af/bt PoE standards, providing efficient power delivery to connected devices.
- **Layer 3 Switching:** Supports advanced routing capabilities, including static and dynamic routing protocols, enabling efficient traffic management and network segmentation.
- **High Port Density:** Equipped with 48 Gigabit Ethernet ports, offering ample connectivity for various network devices and applications.
- **10G Uplink SFP Ports:** Includes 4 10G SFP+ uplink ports, providing high-speed backbone connectivity and seamless integration with existing network infrastructure.
- **Enhanced Security:** Features comprehensive security protocols such as ACLs, 802.1x authentication, and port security to protect against unauthorized access.
- **Power over Ethernet (PoE):** Provides efficient power distribution to connected devices, reducing the need for separate power supplies.
- **Quality of Service (QoS):** Advanced QoS mechanisms prioritize critical traffic, ensuring smooth and reliable performance for latency-sensitive applications.
- **Redundancy and Reliability:** Supports redundant power inputs and ring network topology, ensuring uninterrupted network operation and minimizing downtime.
- **User-Friendly Management:** Offers an intuitive web interface, SNMP support, and CLI for simplified configuration, monitoring, and maintenance.

Model: CX-NPA-48GS40D-L3

TECHNICAL SPECIFICATIONS

NETWORK PORT	48×10/100/1000Mbps 1000Base-TX RJ45 PoE Ports Port 1~4 support 24V/48V PoE (single port power MAX 90W) Port 5~48 support PoE (single port power MAX 30W) 4×10G SFP Ports 1x Console RJ45 Port
RESET KEY	1x Reset Key
ENVIRONMENT DETECTION	1 group of input detection of environment temperature and humidity
PORT SPECIFICATION	1-48 port 10/100/1000BaseT(X)auto detection
TRANSMISSION MODE	Store and Forward (full wire speed)
BANDWIDTH	176Gbps
PACKET FORWARDING	160.71Mpps
BUFFER	16M
TRANSMISSION DISTANCE	10BASE-T: Cat3,4,5 UTP (≤250 meter) 100BASE-TX: Cat5 or later UTP (≤100 meter) 1000BASE-TX: Cat6 or later UTP (≤1000 meter)
FLASH	6GB
RAM	8GB
WATT	960W
LED INDICATOR	PWR: Power LED SYS: System LED 1-48:10/100/1000M Network connection indicator 49-52:10G SFP connection indicator
POWER INPUT	Built-in power AC : 100-240Vac 50-60Hz 7.5A
OPERATING TEMPERATURE/HUMIDITY	-30 °C ~ + 60 °C 5% 95% RH No coagulation
INGRESS PROTECTION	IP30
LIGHTNING PROTECTION LEVEL	6KV
WEIGHT	5.6kg/6.4kg
DIMENSION	440mm×360mm×45mm 553mm×403mm×93mm

TECHNICAL SPECIFICATIONS

MONITORING PLATFORM	Quick formation of ring network with one button System temperature monitoring and alarm External temperature and humidity monitoring and alarm Input power monitoring and alarm System each channel key voltage monitoring and alarm System total current, total power monitoring and alarm All-Port network monitoring and alarm Support one group input and output signal monitoring and alarm
NETWORK PROTOCOL	IEEE 802.3x, IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ad, IEEE 802.3q, IEEE 802.3p, IEEE 802.1w, IEEE 802.1d, IEEE 802.1s, IEEE 802.3z, 1000BASE-X, 802.3AF STP (Spanning Tree Protocol) RSTP/ MSTP (Rapid Spanning Tree Protocol) EPPS/ EAPS Ring Network Protocol, ERPS
MAC	32K
MAC TABLE MANAGEMENT	Support
FORWARDING MODE	Support IVL forwarding mode
STATIC MAC ADDRESS	Support
MAC ADDRESS BINDING	Support
MAC ADDRESS FILTERING	Support
MAC LEARNING CONTROL	Control the MAC learning based on port
VLAN CONFIGURATION	Support port-based VLAN Up to 4096 VLANs Support Voice VLAN, can configure QoS for voice data 802.1Q VLAN
NUMBER OF VLANs	4K
802.1Q-BASED VLAN	Support
MAC-BASED VLAN	Support
IP-BASED VLAN	Support
PROTOCOL-BASED VLAN	Support
VOICE VLAN	Support
VLAN MAPPING	Support 1:1 mapping
QINQ	Support basic QinQ Support flexible QinQ
SPANNING TREE	STP (Spanning tree protocol); RSTP/MSTP (Rapid spanning tree protocol) EPPS/ EAPS (Ring network protocol); 802.1x ERPS
PORT AGGREGATION	Support 8 groups of aggregation, each group support up to 8 ports;
PORT MIRRORING	Support many-to-one port mirroring
LOOP GUARD	Support loop protection, real-time detection, quick alarm, concise location, Intelligent blocking, automatic recovery
PORT ISOLATION	Support downlink ports isolate from each other and communicate with uplink port as well
FLOW CONTROL	Half duplex based on Back pressure; Full duplex based on PAUSE frame
SPEED LIMITATION	Bandwidth management based on port input and output
MULTICAST CONTROL	IGMPv1/2/3 and MLDv1/2 Snooping GMRP protocol registration Multicast address management, multicast VLAN, multicast routing port, Static multicast address
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC and port binding Support fixed port to connect to DHCP server to prevent private connection to DHCP server
STORM SUPPRESSION	Support unknown unicast, multicast, unknown multicast, broadcast type storm suppression Storm suppression based on bandwidth adjustment and storm filtering
SECURITY	Support User port+ IP address+ MAC address; ACL based on IP, MAC; Support security properties of number of MAC address based on port
QOS	802.1p port queue priority algorithm; Cos/Tos, QOS remark WRR (Weighted Round Robin), weighted priority rotation algorithm; WRR, SP, WFQ priority scheduling modes
L3 ROUTING	IPv4 Support; IPv6 Support
CABLE SEQUENCE	Auto-MDIX; auto detection on straight-through and cross-over cable
PORT SHUTDOWN	Support
PORT SPEED	Support auto negotiates, full-1000, full-100, half-100, full-10, half-10
FLOW CONTROL	Support full-duplex IEEE 802.3x, half-duplex back pressure
STORM CONTROL	Supports rate limit for broadcast, multicast, and DLF packets
STORM CONSTRAIN	Support the detection of broadcast packets, multicast packets, or unicast packets on the port, shutdown the port if the rate is over the threshold.
PORT MIRROR	Support
PORT RATE LIMIT	Support port ingress and egress rate limit
NEGOTIATION MODE	Port support auto negotiation function (self-negotiation transmission rate and duplex mode)
SYSTEM MAINTENANCE	Upgrade package upload; System log viewing; WEB recovery factory configuration
IP MAC BINDING	Support static configuration of IP, MAC and port binding
AAA	Support 802.1x Support RADIUS & TACACS+ Supports authentication, authorization, and accounting through RADIUS Server Support port-based and MAC-based 802.1x Support 802.1x guest VLAN
CPU PROTECTION	The switch's own security protection prevents large data streams from attacking the switch itself.
SWITCH MANAGEMENT SECURITY	Support enabling and disabling TELNET, WEB and SNMP Services Support TELNET, WEB and SNMP services to bind to standard IP ACLs, ACL L2 to L4 Support for limiting the number of TELNET connections

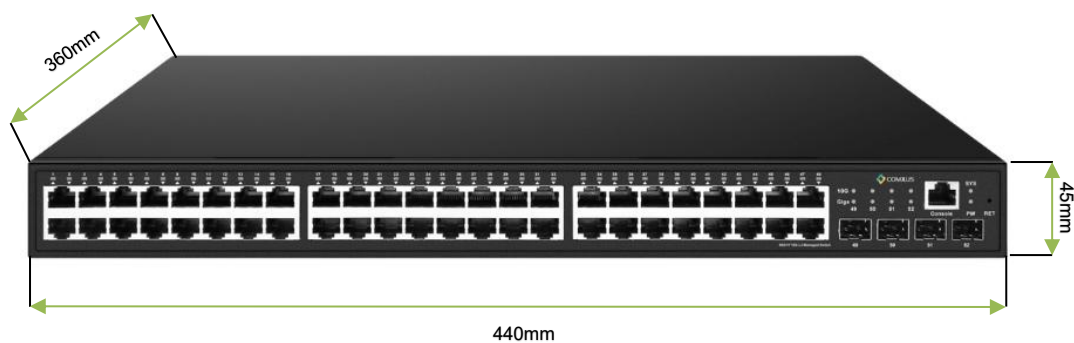
TECHNICAL SPECIFICATIONS

CLOCK MANAGEMENT	Support local clock management Support SNTP
CLUSTER MANAGEMENT	Support NDP Support NTDP Support manual and automatic joining of cluster groups Support cluster unified management
SNMP MANAGEMENT	Support SNMP v1, v2, v3 Support SNMP TRAP Support lots of standard and private MIBs
QOS POLICY	Support packets mapping to queue Support COS or DSCP Remarking Support rate limits of data flow Support data flow statistics Support mirroring of data flow
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3 Support IGMP Querier Support IGMP SNOOPING Filter
LINK AGGREGATION	Support manual link aggregation Support LACP dynamic Link aggregation Supports up to 128 aggregation groups, each group up to 8 ports Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy
PORT ISOLATE	Support
JUMBO FRAME	Support up to 16KB packet
REDUNDANT PORT	Support
ARP	Support static and dynamic ARP
STATIC ROUTE	Support
VLAN INTERFACE	Support 32 VLAN interfaces
RIP	Support RIP v1/v2
OSPF	Support OSPFv2
POLICY ROUTE	Support
VRRP	Support
STATIC MULTICAST MAC ADDRESS	Support
MVR	Support
MTBF	1,121,326 hrs. Standard - (Telcordia)
NETWORK MANAGEMENT	HTTP/HTTPS WEB interface management; CLI management based on Telnet,SSH, Console; SNMP V1/V2/V3 management RMONV1/V2 management; RMON management
INSTALLATION	Rack-mount
STANDARDS & CERTIFICATIONS	
EMI	CISPR 32, FCC Part 15B Class A
CE, FCC & RoHS	CE, FCC complaint, RoHS Compliant (pb free)
EMS STANDARDS	IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11
ENVIRONMENTAL	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-3
EMC	EN55032/35, EN61000-6-2/-6-4, NEMA TS2
SHOCK	IEC 60068-2-27
FREEFALL	IEC 60068-2-31
VIBRATION	IEC 60068-2-6

Ordering Information:

CX-NPA-48GS40D-L3	48×10/100/1000Mbps 1000Base-TX RJ45 PoE Ports ,4×10G SFP Ports, Operating Temperature -30 +60°C
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Product Dimensions



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