



- 24x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 4x 1/10 Gigabit Ethernet SFP+ Slot
- Built for harsh environments and wide temperature range application
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2/v3, up to 512 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection
- USB storage for configuration-free replacement
- Supports industrial automation protocols Ethernet/IP and Modbus TCP
- Supports PoE PD Alive Check Function for PoE Device Power Recycle

Specifications

Technology

Standard

IEEE 802.3 10BaseT
 IEEE 802.3u 100BaseTX
 IEEE 802.3ab 1000BaseT
 IEEE 802.3x Flow Control
 IEEE 802.3az Energy-Efficient Ethernet

IEEE 802.3af Power over Ethernet
 IEEE 802.3at PoE+
 IEEE 802.3ad/802.1AX LACP
 IEEE 802.1D Spanning Tree Protocol
 IEEE 802.1w Rapid STP

IEEE 802.1s Multiple STP
 ITU-T G.8032 / Y.1344 ERPS
 IEEE 802.1Q VLAN Tagging
 IEEE 802.1ad Stacked VLANs
 IEEE 802.1p Class of Service

IEEE 802.1X Network Authentication
 IEEE 802.1AB LLDP

Processing Type

Store and Forward

Switch properties

Switch Fabric	128Gbps	Packet Buffer	12Mbits
Priority Queues	8 Queues	VLAN Table Size	4094
Jumbo Frame	9216bytes	IGMP Group	512
MAC Table Size	16K	Routing Entries (IPv4/IPv6)	512/256 host, 64/64 LPM

Software Feature

Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP	Time Sync.	NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)
Security	802.1X, RADIUS, TACACS+, SSL, SSH	QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP	PoE	Powering Status, PoE Monitoring, Scheduling, PD Alive Check
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP	Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet
Configuration	DHCP Server/Client, Relay Option 82, TFTP, USB	L3 Routing	NAT
Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning		

Interface

RJ45 Ports	24x 10/100/1000T(x) with PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X	Digital Inputs	1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA
Fiber Port	4x 1/10 Gigabit Ethernet SFP+ Slot	Button	Multiple functions reset button
LED Indicators	Per unit: PWR1, PWR2, Fault, Ring Master, Ring State Ports: Link/Active with highest speed(Green), low speed(Amber) PoE: Output Power	Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC	Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A		

Power Requirements

Operation Voltage	90~264VAC, 48~57VDC, redundant dual inputs, >50VDC for PoE+ output recommended	Protection	Overload Current Protected, Reverse Polarity Protected
Connection	AC socket, DC 4-pin terminal block	PoE Power Budget	Max. 348W@AC with derating (50°C to 70°C, 2.5%/°C) or 720W@DC, for total PD consumption, Max. 30 W per PoE port
Power Consumption	26W without PDs' consumption		

Mechanical Construction

Enclosure	Aluminum / Steel met	Weight	6.00 kg
Protection Class	IP30	Mounting	Rack Mounting
Dimensions	440x44x331 mm (WxHxD)		

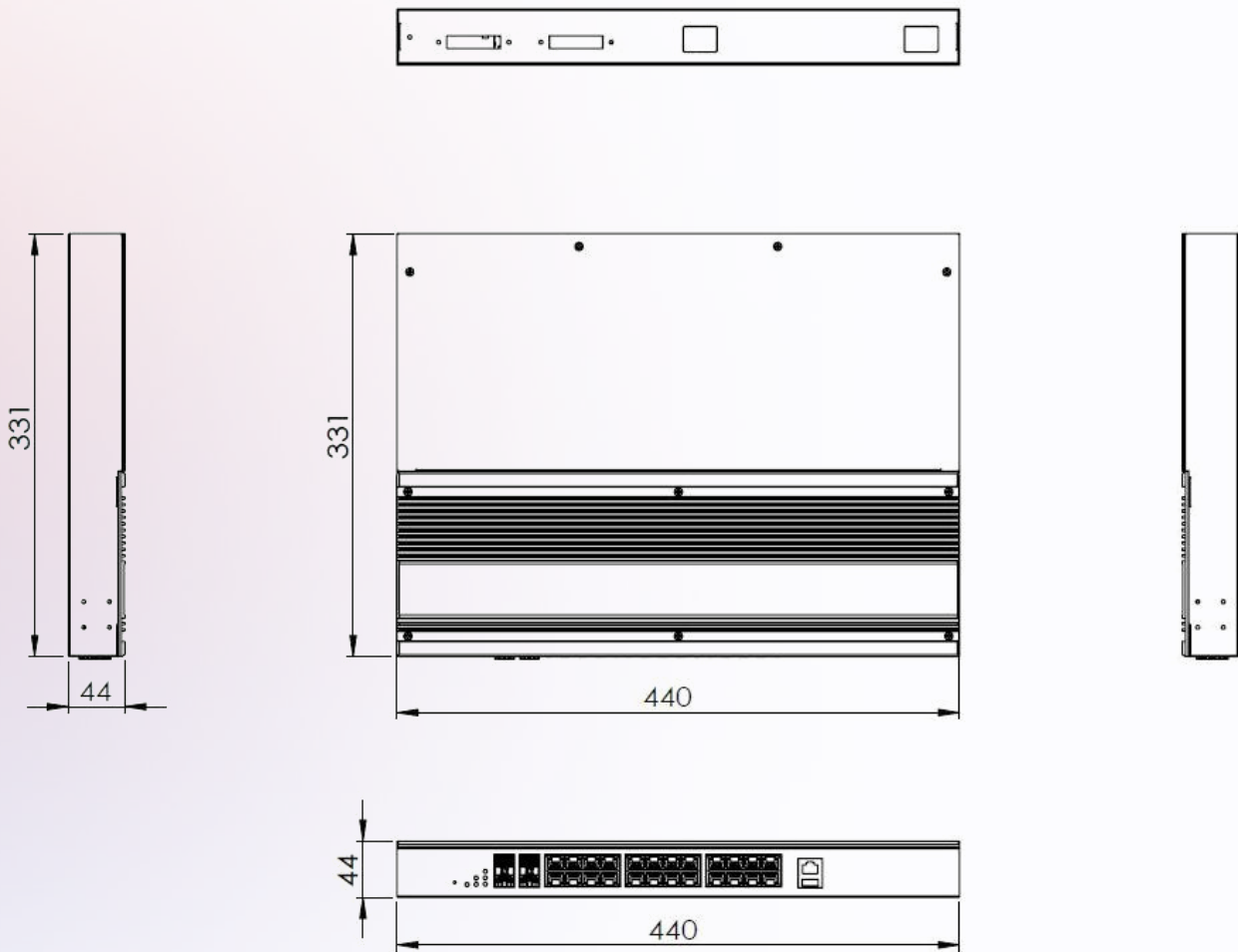
Environmental Limits

Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F) For 10G SFP+: -40 ~ 60°C (32°F ~ 140°F)	Ambient Relative Humidity	5 to 95%, (Non-Condensing)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)		

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A	Vibration	IEC60068-2-6
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)	Green	RoHS Compliant
Free Fall	IEC60068-2-32	MTBF	>100,000 hours
		Warranty	5 Years
		Shock	IEC60068-2-27

Dimensions (unit = mm)



Ordering Information

Available Models

CP-2404X-1AC-T 24+4 Port Industrial Managed PoE+ L3 Switch with 10G Uplink
 - 24x 10/100/1000T(x) with 30W PSE + 4x 1/10 Gigabit Ethernet SFP+ Slot
 - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)
 For 10G SFP+: -40 ~ 60°C (-40°F ~ 140°F)
 - 1x 90~264VAC Power Input

CP-2404X-DC-T 24+4 Port Industrial Managed PoE+ L3 Switch with 10G Uplink
 - 24x 10/100/1000T(x) with 30W PSE + 4x 1/10 Gigabit Ethernet SFP+ Slot
 - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)
 For 10G SFP+: -40 ~ 60°C (-40°F ~ 140°F)
 - 2x 48~57VDC Robust Isolation Power Input

CP-2404X-AD-T 24+4 Port Industrial Managed PoE+ L3 Switch with 10G Uplink
 - 24x 10/100/1000T(x) with 30W PSE + 4x 1/10 Gigabit Ethernet SFP+ Slot
 - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)
 For 10G SFP+: -40 ~ 60°C (-40°F ~ 140°F)
 - 1x 90~264VAC Power and 1x 48~57VDC Power Input

Optional Accessories

NDR-240-48 240W Industrial DIN-Rail Power Supply, 48VDC (metal case)

NDR-480-48 480W Industrial DIN-Rail Power Supply, 48VDC (metal case)