

CS-2404X

24+4 Port Industrial Managed L3 Switch with 10G Uplink



- 24x Gigabit Ethernet ports
- 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



Specifications

Technology

Standard

IEEE 802.3 10BaseT	IEEE 802.3af Power over Ethernet	IEEE 802.1s Multiple STP	IEEE 802.1X Network Authentication
IEEE 802.3u 100BaseTX	IEEE 802.3at PoE+	ITU-T G.8032 / Y.1344 ERPS	IEEE 802.1AB LLDP
IEEE 802.3ab 1000BaseT	IEEE 802.3ad/802.1AX LACP	IEEE 802.1Q VLAN Tagging	IEEE 1588 PTP
IEEE 802.3x Flow Control	IEEE 802.1D Spanning Tree Protocol	IEEE 802.1ad Stacked VLANs	
IEEE 802.3az Energy-Efficient Ethernet	IEEE 802.1w Rapid STP	IEEE 802.1p Class of Service	

Processing Type

Store and Forward

Switch properties

Priority Queues	8 Queues	Packet Buffer	12Mbits
Jumbo Frame	9216bytes	VLAN Table Size	4094
MAC Table Size	16K	IGMP Group	1023
Switch Fabric	64	Routing Entries (IPv4/IPv6)	512/256 host, 64/64 LPM
VLAN IP Entries	128Gbps		

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), 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(AC2/DC2), Fault, Ring Master, Ring State Ports: Link/Active with highest speed(Green), low speed(Amber)	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
Combo Port	8x 10/100/1000T(x) with dual speed SFP combo port, auto media detect		

Power Requirements

Operation Voltage	90~264VAC, 12~48VDC, redundant dual inputs	Protection	Overload Current Protected, Reverse Polarity Protected
Connection	AC socket, DC 4-pin terminal block	Power Consumption	0.3A@110VAC, 0.82A@24VDC

Mechanical Construction

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

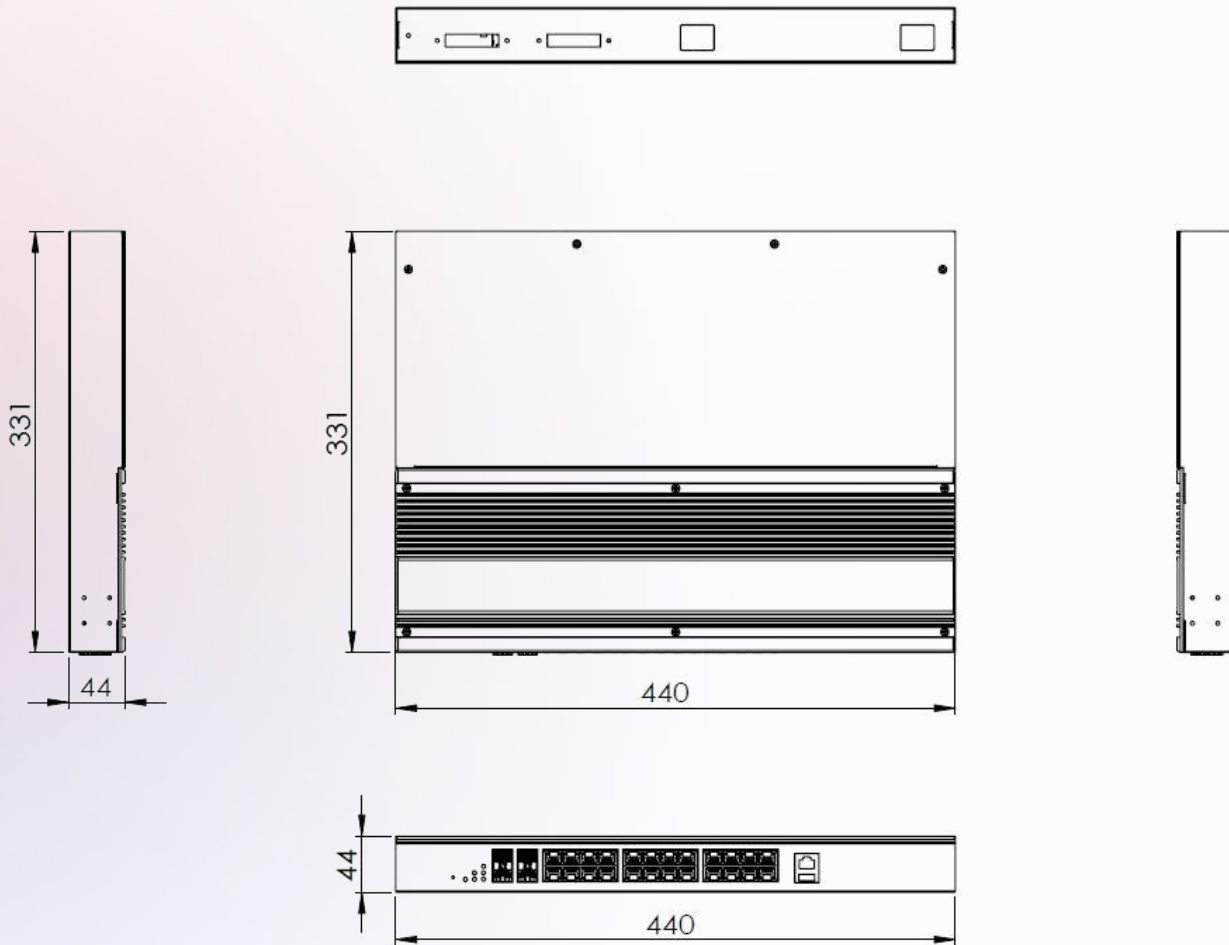
Environmental Limits

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	Certifications	UL 60950-1/62368 (Pending)
		MTBF	>100,000 hours
		Warranty	5 Years
		Shock	IEC60068-2-27

Dimensions (unit = mm)



Ordering Information

Available Models

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

CS-2404X-DC 24+4 Port Industrial Managed L3 Switch with 10G Uplink
 - 24x 10/100/1000T(x) + 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 12VDC Robust Isolation Power Input

CS-2404X-AD 24+4 Port Industrial Managed L3 Switch with 10G Uplink
 - 24x 10/100/1000T(x) + 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 12VDC Power Input

Optional Accessories

NDR-75-24 75W Industrial DIN-Rail Power Supply, 24VDC (metal case)

NDR-75-48 75W Industrial DIN-Rail Power Supply, 48VDC (metal case)