

CS-2404X-HS

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



- 24x Gigabit Ethernet ports
- 4x 1/10 Gigabit Ethernet SFP+ Slot
- Hot swappable power modules for continuous operation
- 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

Standards	IEEE 802.3 10BaseT
	IEEE 802.3u 100BaseTX
	IEEE 802.3ab 1000BaseT
	IEEE 802.3ae 10GBase over Fiber
	IEEE 802.3x Flow Control
	IEEE 802.3az Energy-Efficient Ethernet
	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
	IEEE 1588 PTP

Processing Type	Store and Forward
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Switch Properties

Switch Fabric	128Gbps
Priority Queues	8 Queues
Jumbo Frame	9216bytes
MAC Table Size	16K
Packet Buffer	12Mbits

VLAN Table Size	4094
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IGMP Group	512
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ACL Group	512
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VLAN IP Entries	64
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Routing Entries (IPv4/IPv6)	512/256 host, 64/64 LPM
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Software Feature

Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP
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Security	802.1X, RADIUS, TACACS+, SSL, SSH
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Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP
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Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP, DDM
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Configuration	DHCP Server/Client, Relay Option 82, TFTP, USB
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Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning
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Time Sync.	NTP, IEEE1588v2 OC (Software Timestamp), BC (Software Timestamp), TC (Hardware Timestamp)
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QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
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Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet
L3 Switching	Static Routing, RIP v1/v2, RIPng, OSPF v2, OSPF v3, VRRP v2
Interface	
RJ45 Port	24x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
Fiber Port	4x 1/10 Gigabit Ethernet SFP+ Slot
LED Indicators	Per unit: PWR, Fault, Ring Master, Ring State Ports: Link/Active with highest speed(Green), low speed(Amber)
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
Digital Inputs	1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA
Button	Multiple functions reset button
Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog
Power Requirements	
Operation Voltage	External PSU, 100~240VAC or 48~57VDC, redundant dual inputs
Connection	External PSU, AC socket or DC 3-pin terminal block
Power Consumption	26W without PDs' consumption
Protection	Overload Current Protected, Reverse Polarity Protected

Features with star(*) implies those are under development.

In a continuing effort of improvement and updated technology, product specifications are subject to change without notice.

Mechanical Construction

Enclosure	Aluminum / Steel metal
Protection Class	IP30
Dimensions	440x44x437 mm (WxHxD)
Weight	6.00 kg
Mounting	Rack Mounting

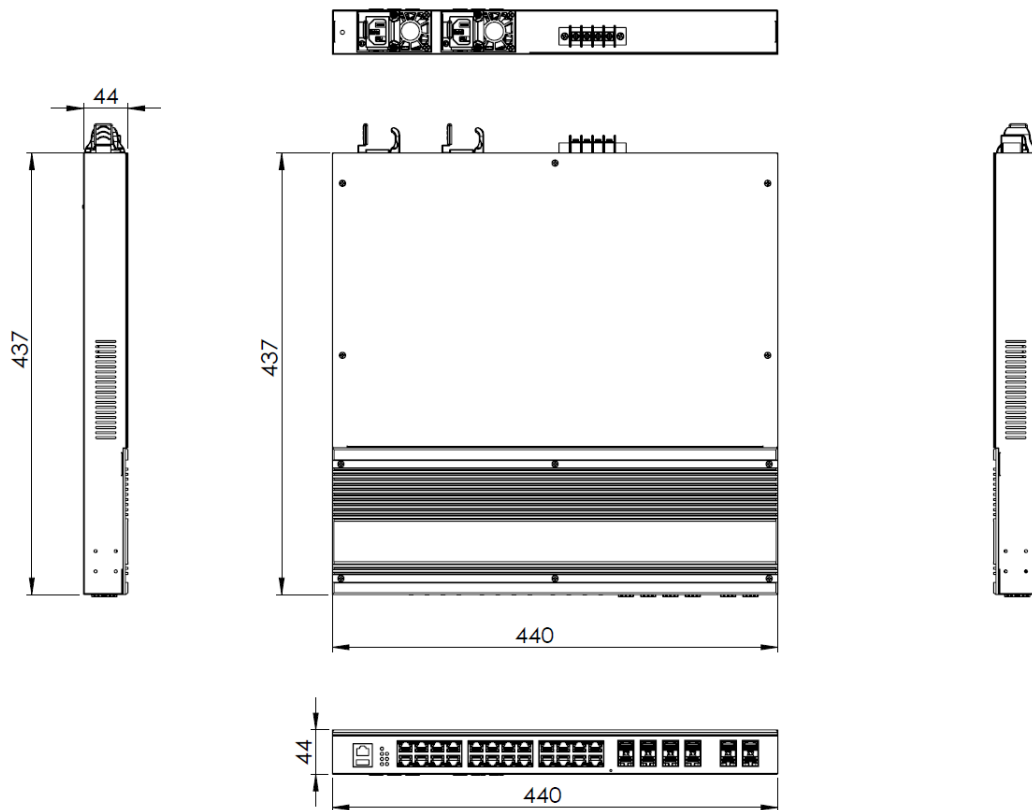
Environmental Limits

Operating Temperature	PSU Limited: -5°C ~ 55°C (23°F ~ 131°F) w/o PSU: -40 ~ 60°C (32°F ~ 140°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
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)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
MTBF	>100,000 hours
Warranty	5 Years

Dimensions (unit = mm)



Ordering Information

CS-2404X-HS

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

- 8x 10/100/1000T(x) with 30W PSE + 16x 10/100/1000T(x) + 4x 1/10 Gigabit Ethernet SFP+ Slot
- Operating Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
- 2x Power slot

Optional Accessories

UP3001R-0166G

AC 100~240V input, 300W output Power Supply Unit