



Industrial 28 SFP + 8 G RJ45 Port L3 Routing Switch with 10G Uplink

Features

- 8x 10/100/1000T(x) RJ45 Ports
- 4x 1/10 Gigabit Ethernet SFP, 24x 1000F(x) SFP ports
- L3 routing features
- Operating wide temperature -40°C ~ 75°C

Specifications

Technology

Standards	IEEE 802.3 10BaseT
	IEEE 802.3u 100BaseTX
	IEEE 802.3ab 1000BaseT
	IEEE 802.3z 1000BaseX
	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

Switch Properties

Switch Fabric	160Gbps
Priority Queues	8 Queues
Jumbo Frame	12288byte
MAC Table Size	32K
Packet Buffer	32Mbits
VLAN Table Size	4094
IGMP Group	4096
ACL Group	4096

Power Requirements

Operation Voltage	100~240VAC, 12~48VDC, redundant dual inputs
Connection	AC socket, DC 4-pin terminal block
Power Consumption	1.67A@24VDC; 0.494A@220VAC
Protection	Overload Current Protected, Reverse Polarity Protected

Software Feature

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

Interface

RJ45 Port	8x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
Fiber Port	4x 1/10 Gigabit Ethernet SFP+ Slot 24x 1000F(x) SFP Slot
LED Indicators	Per unit: PWR1, PWR2(AC2/DC2), 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

■ Specifications

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
Certifications	IEC 61000-6-2, IEC 61000-6-4 IEC61850-3, IEEE1613 in Prep
MTBF	>100,000 hours

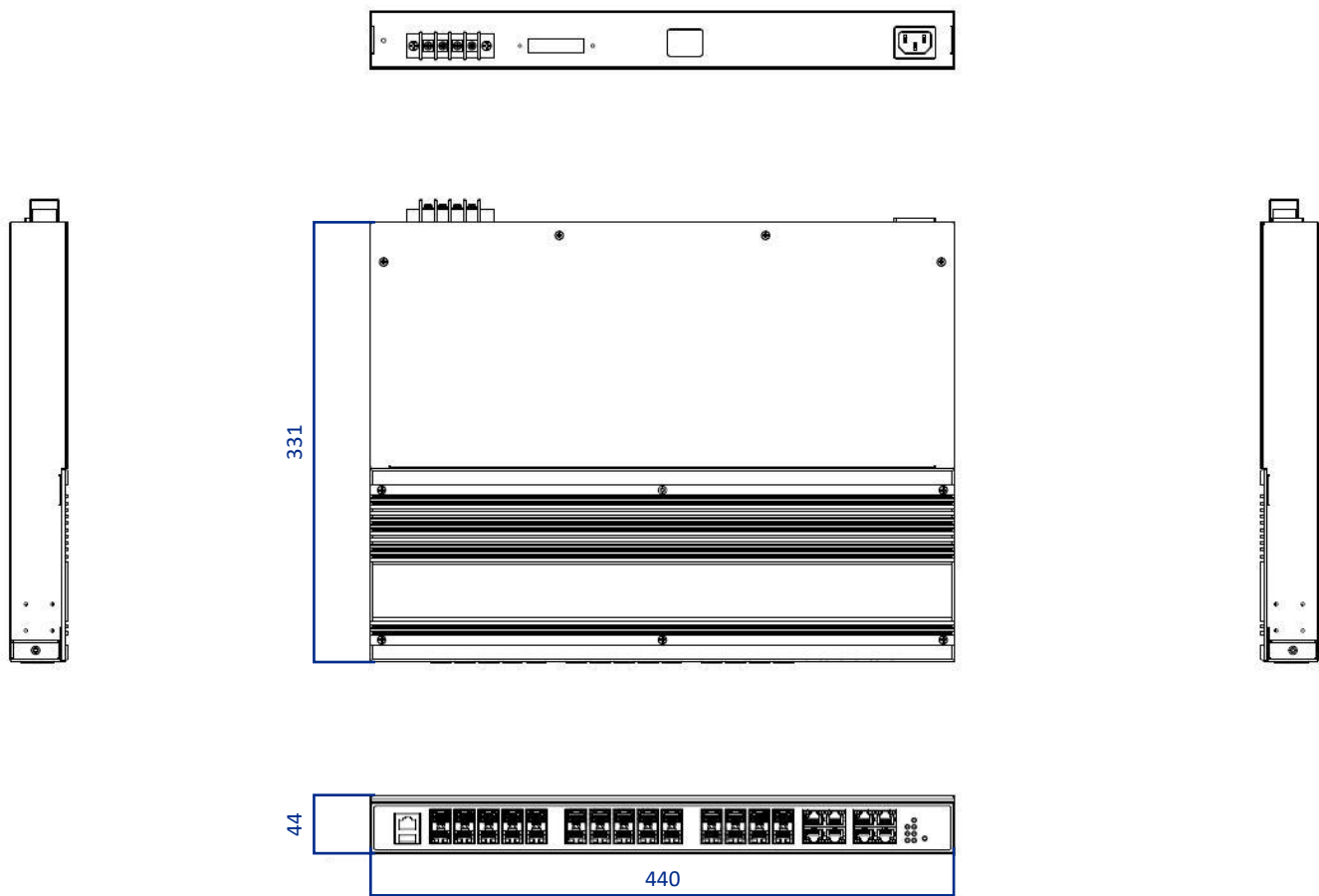
Environment

Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Humidity	5% to 95%, (Non-Condensing)

Physical

Enclosure	Aluminum / Steel metal
Protection Class	IP30
Dimensions(W x H x D) (mm)	440 x 44 x 331
Weight	Weight 6.1 kg
Mounting	Rack Mounting

■ Mechanical Drawings (Unit = mm)



■ Ordering Codes

Model Number	Description
XTR-K28F08G-AD-R-L2	8+28 Port Industrial Managed Ethernet Switch with 10G Uplink - 8x 10/100/1000T(x) + 24 x 1000F(x) SFP Slot + 4x 1/10 Gigabit Ethernet SFP+ Slot - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - 1x 90~264VAC Power Input
XTR-K28F08G-AD-R-L3	8+28 Port Industrial Managed Ethernet Switch with 10G Uplink - 8x 10/100/1000T(x) + 24 x 1000F(x) SFP Slot + 4x 1/10 Gigabit Ethernet SFP+ Slot - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - 1x 90~264VAC Power and 1x 12~48VDC Power Input

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