



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

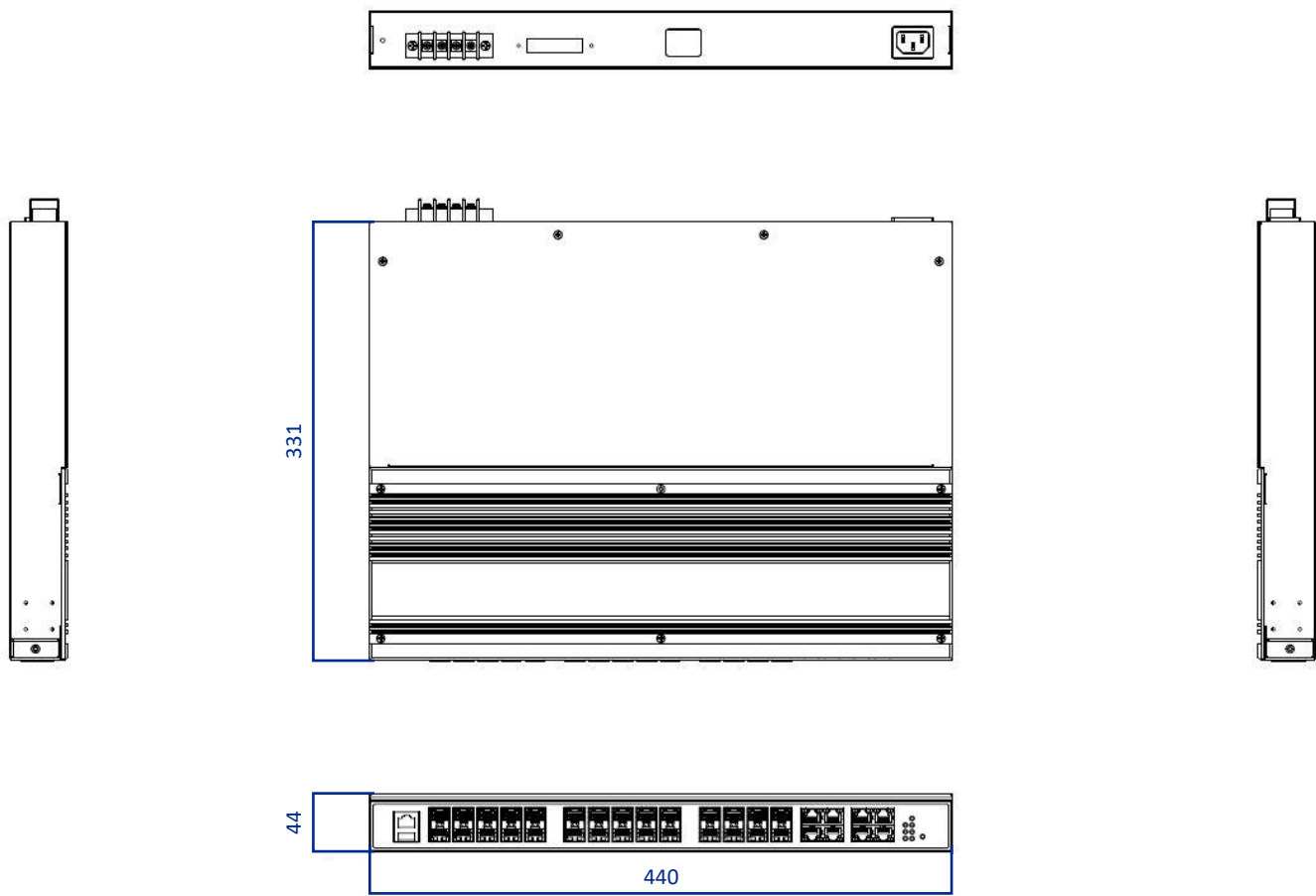
Interface

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		Environment	
EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A	Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
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)	Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Free Fall	IEC60068-2-32	Humidity	5% to 95%, (Non-Condensing)
Shock	IEC60068-2-27	Physical	
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	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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