



■ Features

- 20 10/100/1000BaseT Ports
- 4 100/1000 Base X/T Combo Ports
- 4 100/1000/2500 Base X SFP ports
- L2 management and security features
- 1U rackmount, Fanless, 100-240V dual AC power
- Operating wide temperature -40°C ~ 75°C

■ Description

Features and Benefits

- Configurable by web browser, Telnet, CLI
- With functions of data packet dropout protection and quick recovery from network failure
- Support various multicast protocols and strong safety protection mechanism
- IGMP snooping and GMRP for filtering traffic from industrial Ethernet protocols
- QoS (IEEE 802.1p/1Q and TOS/DiffServ) to increase determinism
- SNMPv1/v2c/v3 for different levels of network management
- Bandwidth management to prevent unpredictable network status
- Port mirroring for online debugging
- Isolated redundant power inputs
- Fanless, -40°C ~ 75°C operating temperature range

■ Specifications

Technical Specifications - I

- IEEE 802.3 CSMA/CD Method and Physical Layer Specification
- IEEE 802.1p Priority Queuing
- IEEE 802.1q VLAN tagging
- IEEE 802.1d Spanning Tree Algorithm
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1s Multiple Spanning Tree
- IEEE 802.3ac VLAN Tagging
- IEEE 802.1x Authentication
- IEEE 802.3ad Link Aggregation
- IEEE 802.3x Flow Control
- IEEE 802.3 Ethernet
- IEEE 802.3u Fast Ethernet
- IEEE 802.3z Gigabit Ethernet
- IEEE 802 Networks
- RFC 768 UDP
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 854 Telnet Client & Server
- RFC 862 Echo Protocol
- RFC 863 Discard Protocol
- RFC 1027 Using ARP to Implement Transparent Subnet Gateways

Technical Specifications - II

- XTR-R2028G-4C4F-T-X6M
- Industrial L2 28 Port Management Switch
- RFC 1059, 1119 NTPv1/2
- RFC 1112 IGMP
- RFC 1191 Path MTU Discovery
- RFC 1403 BGP OSPF Interaction
- RFC 1542 Bootstrap Extensions & DHCP
- RFC 1851 The ESP Triple DES Transform
- RFC 1994 PPP Challenge Handshake Authentication Protocol (
- RFC 2068 HTTP
- RFC 213 DHCP Server
- RFC 2138 RADIUS
- RFC 2139 RADIUS Accounting
- RFC 2236 IGMPv2
- RFC 2474 DiffServ Precedence
- RFC 2597 DiffServ Assured Forwarding,
- RFC 2598 DiffServ Expedited Forwarding
- RFC 2644 Directed Broadcasts
- RFC 2865 Remote Authentication Dial In User Service (RADIUS)
- RFC 3046 DHCP Relay Agent Information Option
- RFC 3222 Forwarding Information Base (FIB)
- GMRP GARP
- GVRP GARP
- SSH2 Secure Shell 2
- IGMP snooping
- SNMPv1/v2c/v3

Specifications

Switch Properties

Backplane Bandwidth	68Gbps
Switch Architecture	Store-and-Forward
MAC Table Size	16K
Exchange Rate	148,800 pps/100M ports; 1,488,000/1000M ports

Software Functions

Management Mode	Web, serial port, STD-17 MIB-II, STD-58 SMIV2, STD-59 RMON, STD-62 SNMPv3, SNMPv2c, SNMPv1, RFC2668 MAU, RFC2925 Ping MIB, Private MIBs, SSH, HTTPS, Telnet
Diagnosis Mode	Indicator light, journal file, relay, RMON, RSPAN (port mirroring), TRAP
Redundancy	STP, MSTP, RSTP, port trunking
Time Synchronization	NTP
Others	4K VLANS, IPv4/IPv6 multicast, storm control, support Jumbo Frame

Power Parameters

Connection	5-pin terminal block
Input Voltage	100-240VAC, Dual inputs
Overload Current Protection	Supported
Reverse Polarity Protection	Supported
Power Consumption	20W (Max)

Mechanical Characteristics

Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Circuit Board	Approved by IPC

Environment

Storage Temperature	-40°C ~ 85°C
Operating Temperature	-40°C ~ 75°C
Ambient Relative Humidity	5% ~ 95% (non-condensing)

Electromagnetic Characteristics

EMI	FCC 47 CFR Part 15 Class A EN55022 Class A
EMS	IEC (EN)61000-4-2, Class 4 IEC (EN)61000-4-3, Class 3 IEC (EN)61000-4-4, Class 4 IEC (EN)61000-4-5, Class 4 IEC (EN)61000-4-6, Class 3 IEC (EN)61000-4-8, Class 5 IEC (EN)61000-4-12, Class 3

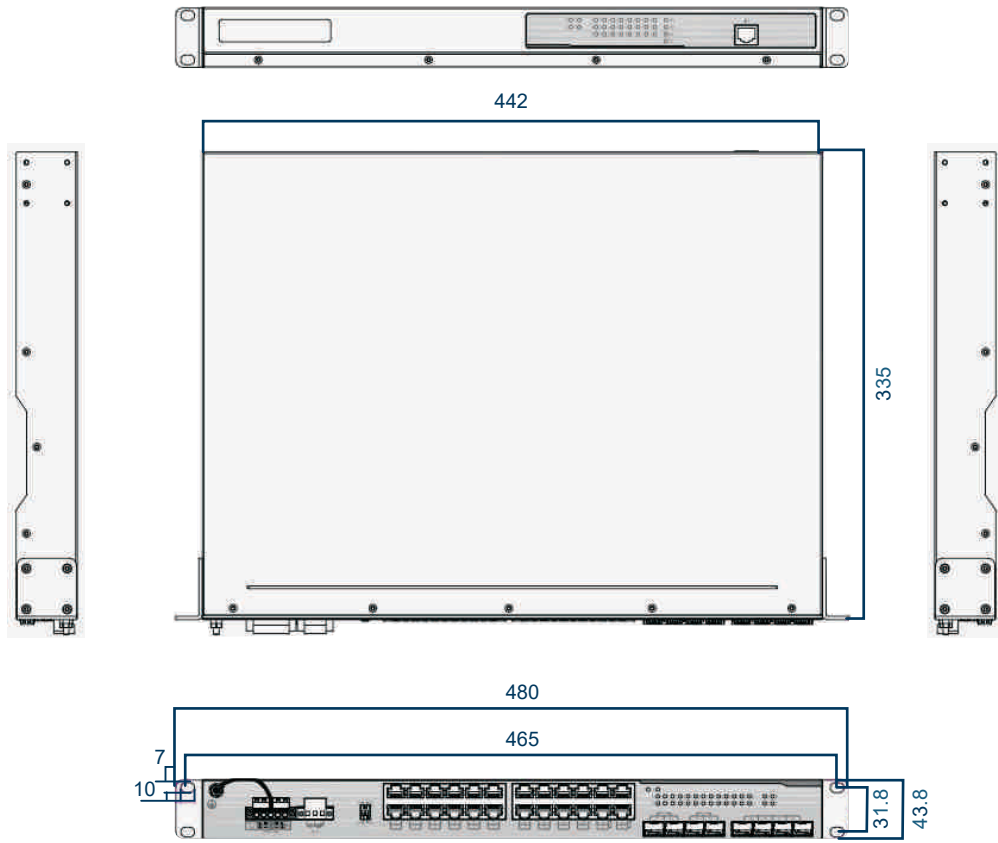
Certification Information (In Process)

Product Safety	CE.CB.IEC.IECEE IEC/EN62368-1 FCC Part 15 Subpart B Class A IEC/EN55022 Class A
Industrial Control Industry	UL/cUL61010

Physical

Dimensions(W x H x D) (mm)	442 × 43.8 × 335
IP Rating	IP40
Weight	2.65kg(Max)
MTBF	≥600,000H

Mechanical Drawings (Unit = mm)



Ordering Codes

Model Number	Description
XTR-R2028G-4C4F-T-X6M	Layer 2, 20 10/100/1000 BaseT Ports, 4 100/1000 Combo ports (DIPenabled), 4 100/1000/2500 BaseX SFP Ports. Standard 19-inch Rack Mount and 1U High, 1 Management Serial CLI Port, 1 Alarm Relay Port(250VAC/125VDC, 2A@250VAC/2A@30VDC). IP40 Protection Class, Operating Temperature from -40°C ~ +75°C. Dual Isolated 100-240V Power Inputs

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