

ST-9011-FI

4G+24ports Modularized Advanced Managed Industrial Ethernet Switch

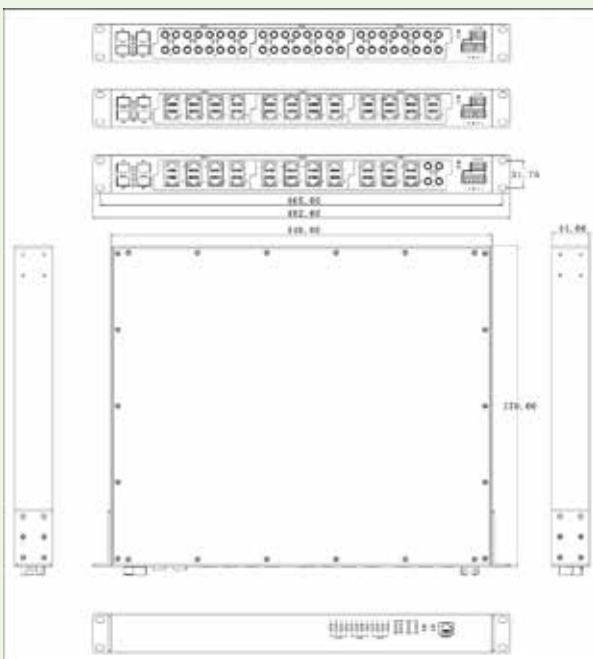


Fiber Industrial Switches

Overview

ST-9011-FI series Gigabit advanced managed Industrial Ethernet switch are equipped with up to 4 Gigabit Ethernet ports. The "Fi Ring" redundant ring (recovery time < 20ms), RSTP, STP, MSTP and 24VD or 48 VDC, 110/220 VDC or 110/220 VAC dual isolated redundant power supplies increase the reliability of your communications. Along with the optional front or rear wiring, these features make PTS 6228 suitable for a variety of industrial applications.

Dimensions



Features

● Ports

• Uplink:

2x10/100/1000BaseTX + 2x1000BaseX SFP slots.

• Downlink:

Up to 24 ports with 100M.

8 fixed 100BaseFX SFP slots and 2 plug-in card slots.

● Comprehensive Security

- Support 802.1X authentication.
- Support MAC address authentication.
- Support MAC-IP-port binding.

● High Reliability

- Support Proprietary Protocol "Fi Ring" (recovery time < 20ms), STP, RSTP and MSTP for network redundancy.
- Support LACP to expand the bandwidth of a switch port, balance the traffic among all the ports in link aggregation and enhance connection reliability.

● Versatile QoS Policies

- Offer powerful hardware ACL capability.
- Support different priority criteria: DSCP priority, 802.1p priority, Strict Priority(SP) and Weight Round Robin(WRR).
- Support diversified flow-based QoS: rate limit, traffic shape traffic statistics, and priority marking.

● Management & Maintainability

- Support SNMP v1/v2c/v3 and RMON MIB Group 1, 2, 3, 9.
- Support FirstMile FiVision NMS for industrial networks providing centralized management, status monitoring and trouble shooting, auto-discovery and auto-provision for incoming device.

Specifications

● Standards:

IEEE802.3
IEEE 802.3u
IEEE802.3z
IEEE 802.3ab
IEEE 802.3x for Flow Control
IEEE 802.1D-2004 for STP
IEEE 802.1w for Rapid STP
IEEE 802.1s for Multiple STP
IEEE 802.1Q for VLAN Tagging
IEEE 802.1p for Class of Service
IEEE 802.1X for Authentication
IEEE 802.3ad for Port Trunk

● Protocols:

IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Client, TFTP, SNTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, SSH, DHCP Option 82, SNMP Inform, LLDP, SNTP Server/Client

● MIB:

MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9

● Flow Control:

IEEE802.3x flow control, back pressure flow control

● Switch Properties:

Priority Queues: 4
Max. Number of Available VLANs: 4094
VLAN ID Range: VID 1 to 4094
IGMP Groups: 256
MAC Table Size: 8K
Packet Buffer Size: 2 Mbit

● Interface :

Fiber ports: 1000BaseX(SFP slots),
100BaseFX(SC connector)
RJ45 ports: 10/100BaseTX or
10/100/1000BaseTx auto negotiation
Console port: RS-232 (RJ45 connector)

● Power Requirements:

Redundant dual inputs, A C-powered or DC-powered
Power 1: 24VDC (18-36V) or 48VDC (36-72V)
Power 2: 110,220VDC(88—300V) or 110,220VAC(88-300V)
Power consumption: no more than 45w
Overload Current Protection: Present
Reverse Polarity Protection: Present
Connector: 5-contact terminal blocks

● Physical Characteristics:

Housing: Metal, IP40 protection
Dimensions: 440 x 44.5x 315mm
Weight: 5kg
Installation: 19-inch 1U rack installation

● Environmental Limits:

Operating Temperature
Standard Models: 0 ~ +60°C (32 ~ 140°F)
Wide Temp. Models: -40 ~ +75°C (-40 ~ 167°F)
Storage Temperature: -40 ~ +85°C (-40 ~ 185°F)
Ambient relative Humidity: 5 ~ 95% (non-condensing)

● Standards and Certifications:

Safety: UL 508, UL 60950-1, CSA C22.2 No, 60950-1 and EN 60950-1
EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A
EMS:
EN 61000-4-2 (ESD) Level4, EN 61000-4-3 (RS) Level4,
EN 61000-4-4 (EFT) Level4, EN 61 000-4-5 (Surge) Level4,
EN 61000-4-6 (CS) Level4, EN 61000-4-8 Level4,
Shock: IEC 60068-2-27
Freefall: IEC 60068-2-32
Vibration: IEC 60068-2-6

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* Specs and Pictures of the product can be revised according to R&D

* Products design in UK.

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