

PTS 6228 Series

Overview

PTS 6228 Series Modularized Advanced Managed Industrial Ethernet Switches equip with up to 4 Gigabit Ethernet ports. The "Fi Ring" redundant ring (recovery time < 20ms) RSTP, STP, and 110/220 VDC or 110/220 VAC dual isolated redundant power supplies increase the reliability of your communications. Optional front and rear wiring bring convenience for different wiring environment. All these features make PTS 6228 Series suitable for a variety of industrial applications.



Highlight

- IEC 61850-3 and IEEE 1613(power substation) compliant
- Reliable hardware design is suitable for industrial applications
- Modularized design for flexible and scalable networks, support all-electrical 8 ports card and all-fiber 8 ports card
- Up to 4 Gigabit uplink ports
- First Mile Ring Protocol "Fi Ring" (recovery time < 20ms),RSTP,STP and MSTP for network redundancy
- SNMPv3,IEEE 802.1X,HTTPS,and SSH to enhance network security
- Support VLAN and QoS
- Easy network management through web browser,CLI,Telnet/serial console and SNMP
- Support the optional front or rear wiring

Features and Benefits

Ports

- Uplink:
4x1000BaseX SFP slots
- Downlink:
Up to 24 ports with 100M, 3 card slots
Card slots support 8F (8 100BaseFX ST ports), 8T (8 10/100BaseTX RJ45 ports), 2F6T (2 100BaseFX ST ports + 6 RJ45).

High Reliability

- Support First Mile Ring Protocol "Fi Ring" (recovery time < 20ms), STP, and RSTP 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.

Management & Maintainability

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

Comprehensive Security

- Support 802.1X authentication
- Support MAC address authentication

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

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 with LACP

Protocols:

IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Client, TFTP, SNTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, SSH, 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 (ST connector or SFP slots)
RJ45 ports: 10/100BaseTX auto negotiation

Console port: RS-232 (RJ45 connector)

Alarm Contact:

1 relay outputs with current carrying capacity of 2A@250VAC/220VDC

Power Requirements:

Redundant dual inputs,AC-powered or DC-powered

Power: 110~220VDC (88-300V) or 110~220VAC (88-300V)

Power consumption: no more than 40w

Overload Current Protection: Present

Reverse Polarity Protection: Present

Connector: 5-contact terminal blocks

Physical Characteristics:

Housing: Metal,IP30 protection

Dimensions: 440 x 370 x 44.5 mm

Weight: 5kg

Installation: 19-inch 1U rack installation

Environmental:

Operating Temperature: -40 ~ +85°C (-40 ~ 185°F)

Storage Temperature: -40 ~ +85°C (-40 ~ 185°F)

Ambient relative Humidity: 5 ~ 95% (non-condensing)

Standards and Certifications:

EMI: FCC Part 15 Subpart B Class A,EN 55022 Class A

EMS:

EN 61000-4-2 (ESD) Level4,EN 61000-4-3 (RS) Level3,

EN 61000-4-4 (EFT) Level4,EN 61 000-4-5 (Surge) Level4,

EN 61000-4-6 (CS) Level3,EN 61000-4-8 (PFMF) Level5,

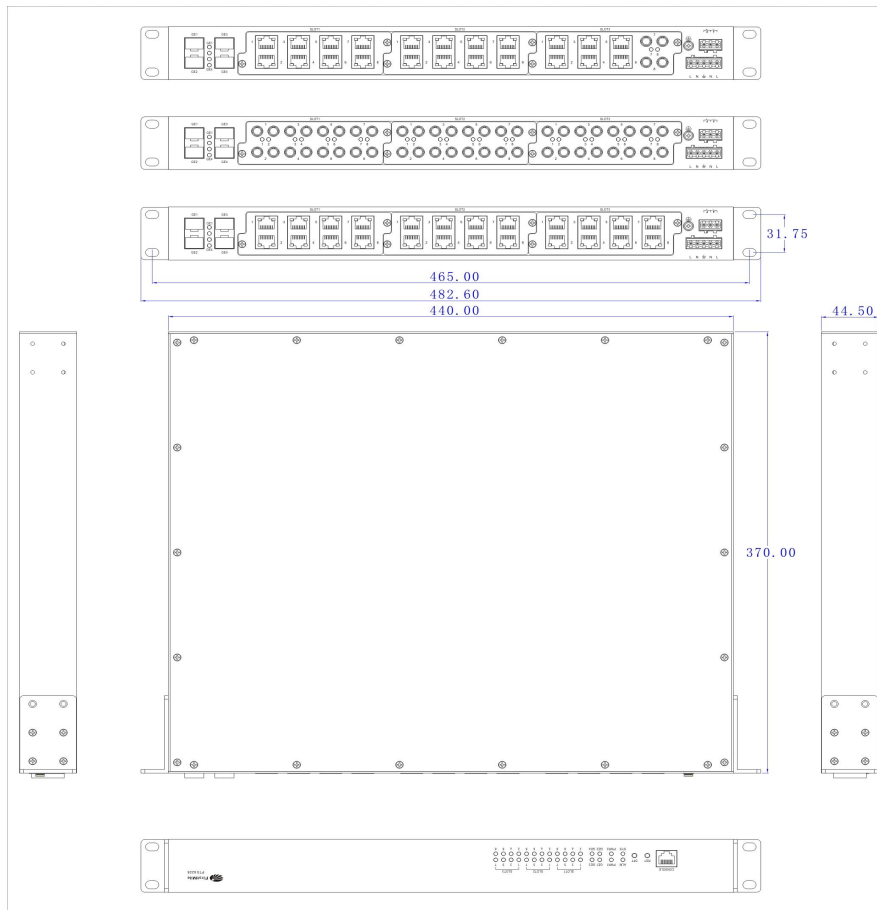
Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Warranty Period: 5 years

Dimensions



Ordering Information

First: Choose the available switch models;

Available Models	Power Configuration	Wiring
PTS 6228	SA: Single AC power	F: Front R: Rear
	SD: Single DC power	
	AA: Dual AC power	
	DD: Dual DC power	
	AD: AC power+DC power	

Second: Choose available supportable card models;

Available Card Models	Description
PTS 6228-2F6T	2 100BaseFX ST ports + 6 RJ45
PTS 6228-8T	8 10/100BaseTX RJ45 ports
PTS 6228-8F	8 100BaseFX ST ports