Industrial PoE Switch PIES1012-4C-8P

◆ 8-port 10/100/1000M Base-T (x) PoE + 4 gigabit SFP slots Managed

➢ Features

- Support 8-port 10/100/1000Base-TX and 4 Gigabit SFP slot and 1 console port
- Support:IEEE802.3,IEEE802.3u,IEEE802.3x,IEEE802.3z/ab,IEEE802.1Q, IEEE802.1p,IEEE802.1D/W IEEE802.3af/at, store and forward
- L2+ features provide better manageability, security, QoS, and performance
- Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE+ management, IP Source Guard, ARP inspection, ACLs etc
- Jumbo frames support up to 9.6K kilobytes
- Support spanning tree STP(802.1D) and RSTP(802.1W).802.1s (MSTP) way exchange time<50ms
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP
- Compatible with both IEEE802.3at(30W) andIEEE802.3af(15.4W)
- Ethernet port support 10/100/1000M self-adaption
- IP30 protect grade, high strength iron shell, DIN35 Rail installation
- Industrial grade 4 design, -40 to 75℃ working temperature

➢ Introduction

The PIES1012-4C-8P device is a kind of industrial PoE switch, it support 8-port 10Base-T/100/1000Base-TX POE and 4 gigabit SFP slots. These converters are classified as power source equipment (PSE), and when used in this way provide up to 15.4 watts IEEE802.3af & 30 watts to IEEE802.3at compliant powered devices (PD), eliminating the need for additional wiring

It provided some kinds of advanced network managed function, like as: Ring redundancy ring network, VLAN, Trunking, Quality of Service, Speed control, port mirroring, fault alarm and firmware upgrade online. SW-Ring can bring your Ethernet to intelligent redundancy. Standard Industry design, can satisfied every requirement of the industry scene. All components used industry grade, it takes products high reliability. It provided wide voltage power supply input

It support CE, FCC ROHS standard, adopt industry standard design, IP30 protection, rugged high-strength metal case, Dual power supply input (DC48-55V), -40 to 75℃ working temperature. The converters support IEEE802.3/IEEE802.3i/IEEE802.3uIEEE802.3ab/IEEE802.3zwith 10/100/1000M, full/half-duplex, and MDI/MDI-X auto-sensing, providing a complete solution for your industrial Ethernet network.

➢ Application Industries

- HD monitor transmission and power supply
- Wireless AP layout transmission and power supply
- Network telephone transmission , intelligent house and home system
- Intelligent transportation supervisory system (ITS)
- High-speed Way supervisory/Tele-Communication System

- Security protection system, TV medical treatment
- Long-distance Multi-media Schooling, Campus monitoring
- Long-distance broadcast television transmission system
- High-building Security Protection, Military Tele-Com project

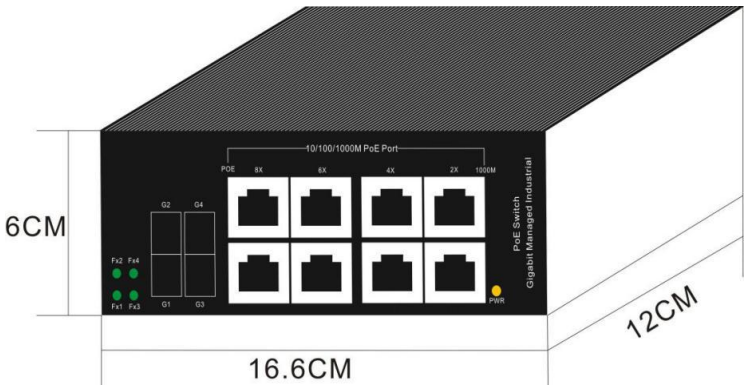
➢ Specification

Interface	
Port	8x 10/100/1000M copper RJ-45 ports, 2x 1000M SFP port ,1 console
Network Protocols	Support IEEE802.3,IEEE802.3u,IEEE802.3z, IEEE802.3ab, IEEE802.3x, IEEE802.1d, IEEE802.1w
L2 (Layer2 Switching)	
Port management	Enable / disable port Speed, duplex, MTU settings, etc Flow-control flow control setup Port information view, etc. Support port access direction, VLAN image To support the port speed limit Support port isolation settings Unknown unicast, multicast, broadcast storm suppression
Spanning Tree Protocol	Standard Spanning Tree (STP) 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s
Link Aggregation	Support static manual aggregation, Support LACP dynamic convergence IEEE 802.3ad
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) Support Port based VLAN and IEEE 802.1Q VLAN
IGMP snooping	Support static add / delete Support v1/2/3 dynamic multicast listener, supports 256 multicast groups
GMRP	supports GARP multicast registration protocol
MAC	Support static add / delete MAC address learning limit Support dynamic aging time settings
Extended function	
ACL	based on the source MAC, destination MAC, protocol type, source IP, destination IP, L4 port number Support time-range time management
QOS	Based on 802.1p (COS) classification Based on DSCP classification Based on the source IP, destination IP, port number classification Support SP, WRR, DRR scheduling strategy Support traffic speed limit CAR
MPLS	MPLS supports static LSP Support VPN MPLS
LLDP	supports LLDP link discovery protocol
802.1x	Support 802.1x port authentication (Radius, local)
Prevent attack	DOS defense Support for CPU protection, limited to send CPU message rate

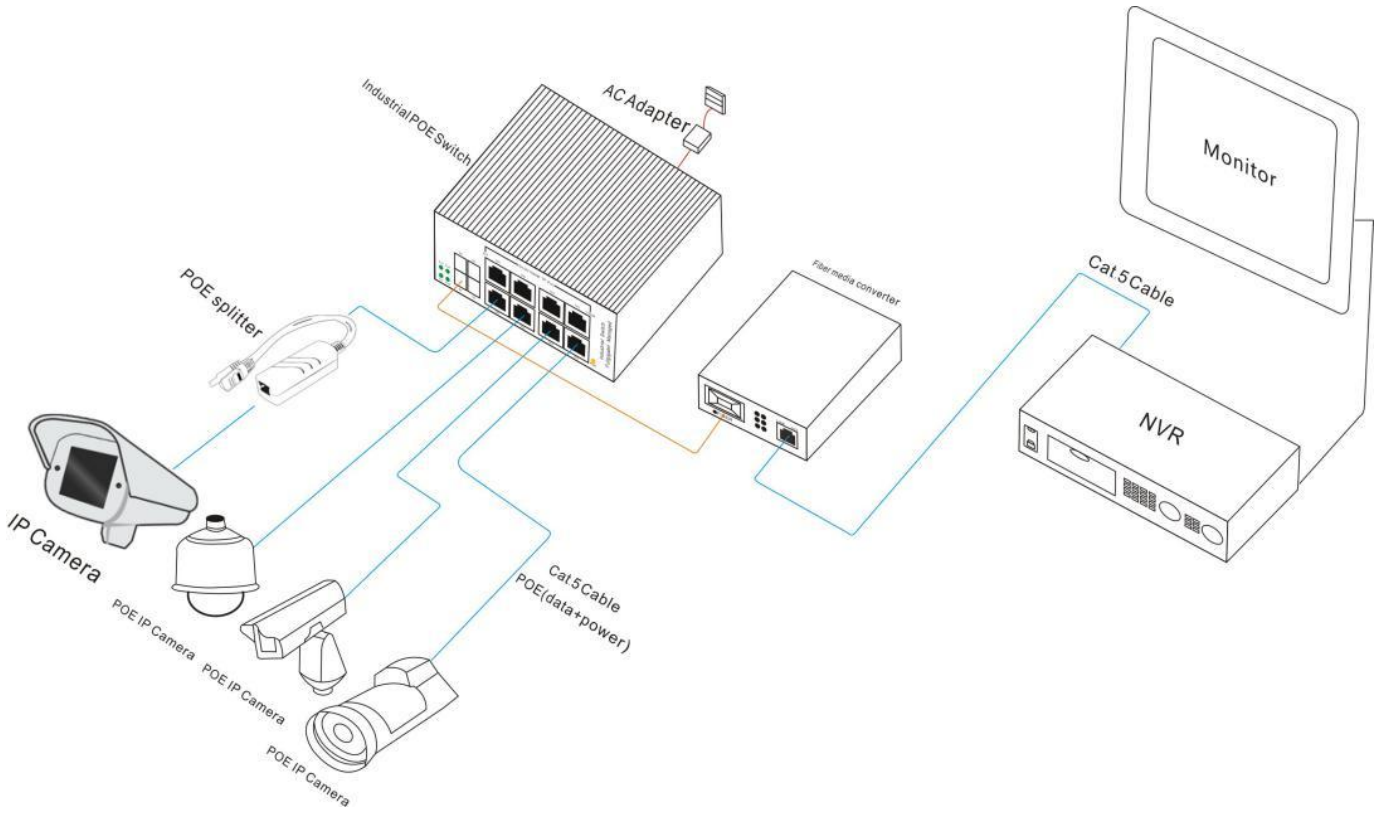
	ARP binding (IP, MAC, PORT binding)
System management	User add / delete user User login, operation, status, event log Device reset, configuration save / restore, upgrade management, time setting, etc.
Management Function	
CLI	support serial command line management
TELNET	support serial command line management
SSH	supports SSHv1/2 remote management
SNMP	support v1/2/3 ColdStart, WarmStart, LinkDown, LinkUp supports two layers, three layers of view, etc.
Other parameters	
PoE Specification	
PoE Standard	Supports both IEEE802.3af and IEEE802.3at
Single PoE Port Power Output	Max. 15.4 watts (IEEE 802.3af) Max. 30 watts (IEEE 802.3at)
PoE port	Auto detect AF/AT devices
PoE Port Output Voltage	DC48V
Power Pin Assignment	1/2+;3/6
Network Media	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-TX: Cat6 or later UTP(≤100 meter)
Fiber Media	Multi-mode: 1310nm, 2Km Single-mode: 1310nm, 20; 1550nm, 40/60/80Km
Performance Specification	Bandwidth: 24Gbps Packet Buffer Memory:4M Packet Forwarding Rate:1488000pps/port Address Table: 8K
Forwarding Mode	Store-And-Forward
LED Display	Fiber Run indicator: FX1,FX2,FX3,FX4 Power supply indicator: PWR PoE ACT indicator: LED-Yellow 1000M LINK indicator: LED-Green
Power Supply	Input Voltage: DC48V (48～55V) Type of input: 6 bits terminal block No-load consumption: MAX 10W@ DC52V0.2A Full-load consumption: MAX 104W@ DC52V2A (802.3af) Full-load consumption: MAX130W@ DC52V2.5A (802.3af+) Full-load consumption: MAX 240W@ DC52V4.6A (802.3at)
Working Environment	Working temperature: -40～75℃ Storage temperature: -40～85℃ Relative Humidity: 5%~95 %(no condensation)
Industry Standard	5%~95 %(no condensation)
Shell	IP30 protect grade, metal shell
Installation	DIN-Rail or Wall mount
Weight	1.2Kg

Size (W×H×D)	166mm×120mm×60mm
Industry Standard	EMI: FCC Part 15, CISPR (EN55022) class A EMS: EN61000-4-2 (ESD) EN61000-4-4 (EFT) EN61000-4-5 (Surge) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Mechanical Structure	Shell: IP30 protect grade, metal shell Installation: DIN-Rail or Wall mounts
Certification	CE mark, commercial FCC Part 15 Class B VCCI Class B EN 55022 (CISPR 22), Class B
MTBF	300,000 hours
Warranty	5 years

➢ Dimension



➢ Application



➢ Order information

Model NO.	Description
PIES205G-GF-4P	4-port 10/100/1000M Base-T(x) PoE + 1-port 1000Base-Fx,Unmanaged
PIES106-2C-4P	4-port 10/100/1000M Base-T (x) PoE + 2-port Gigabit SFP slot,Managed
PIES108-4C-4P	4-port 10/100/1000M Base-T (x) PoE + 4-port Gigabit SFP slot,Managed
PIES1010-2C-8P	8-port 10/100/1000M Base-T (x) PoE + 2-port Gigabit SFP slot,Managed
PIES1012-4C-8P	8-port 10/100/1000M Base-T (x) PoE + 4-port Gigabit SFP slot,Managed

➢ Packing List

- Industrial PoE Switch (plus terminal block) ×1
- User manual x 1
- Certificate of quality x 1
- Warranty card x 1
- DIN-Rail mounting kit x 1