WI-Tek
Communication Solution

WI-PMS305GF-I
5GE+1SFP Ports 48V L2 Managed
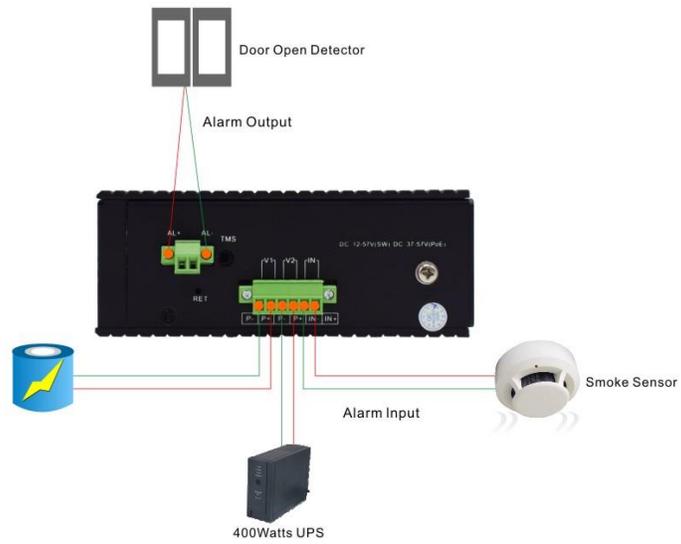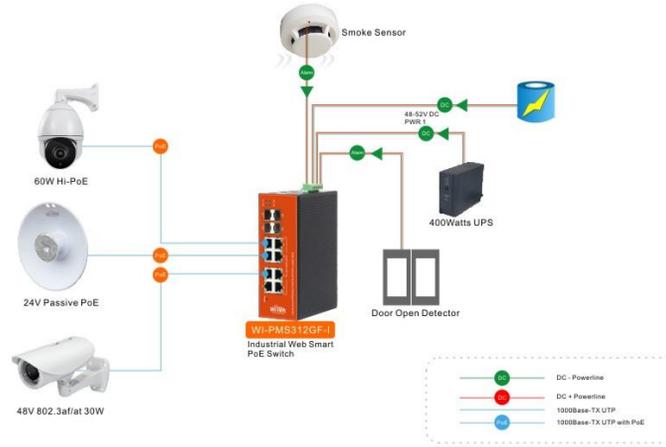## Industrial PoE Switch with 4-Port PoE
Data sheet

Highlights

- Provide 5*10/100/1000Base-T RJ45 ports, 1*1000BASE-X SFP ports

- Port 3-4 support IEEE802.3bt 60W Hi-PoE

- Port 1-2 support 24V Passive PoE and 48V IEEE802.3at 30W Output, auto detect PoE to compatibility with different kind active and passive PoE Device

- PD Port support IEEE 802.3bt 60W PoE Input

- Buffer reaches 4Mbit, Support 4K high-definition video transmission

- Support Web-based network management, support VLAN, QoS, RSTP, SNMP etc. network function

- Support fast ring ,support 30 pcs switches Max. in a cascade system ,Self-healing in 20ms Min

- Industrial Level 4 protection (ESD,RS,EFT,CS);

- -40℃ ~ 80℃ working temperature

- Alarm input and output port for connect external alarm device

- Support Temperature Sensor to detect Temperature status

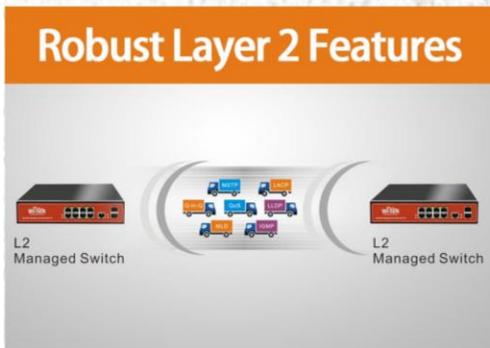- IEEE802.3af (15.4W) and IEEE802.3at (30W) and IEEE802.3bt (60W)

Typical Application

www.wireless-tek.com

Connection

Smoke Sensor

60W Hi-PoE

24V Passive PoE

48V 802.3af/at 30W

WI-PMS312GF-I
Industrial Web Smart
PoE Switch

48-52V DC
PWR 1

400Watts UPS

Door Open Detector

	DC - Powerline
	DC + Powerline
	1000Base-TX UTP
	1000Base-TX UTP with PoE

Door Open Detector

Alarm Output

DC 12-57V(SW) DC 37-57V(PoE)

400Watts UPS

Alarm Input

Smoke Sensor

Fast Ring

Support fast ring , support 30 pcs switches
Max. in a cascade system ,Self-healing in 20ms Min

Control Center
Office
Highway
Factory

120KM Transmit Distance

Extending Ethernet Distance

Ethernet up to
100 meters

Fiber optic cable
up to 120km

Fiber optic cable
up to 120km

Network video
recorder

Gigabit Fiber Switch

240Km

Robust Layer 2 Features

L2
Managed Switch

L2
Managed Switch

Secure Management

Secure Management

SSL
SNMPv3
SSH

Digital Input and Digital Output for External Alarm

Digital Input

Security OK!!

Enclosure

Door Detector
(Door Closed)

Alarm Warning

Enclosure

Door Detector
(Door Open)

Alarm Messaging

Uplink

System Log

SNMP
TRAP

Digital Output

DC Power Failure

Fiber Cable
Link Down
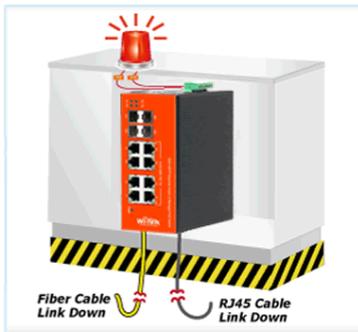
RJ45 Cable
Link Down

What This Product Does

WI-PMS305GF-I is L2 Ports Industrial Full Gigabit Managed Switch. Provide 5*10/100/1000 Base-T Ethernet ports, 1*1000BASE-X SFP ports(Uplink). The switch provides up to 4Mbit cache, Support 4K high-definition video transmission. support Web-based network management, support VLAN, QoS, RSTP, SNMP etc. network function; Working temperature is -40℃ ~ 80℃, strong level of protection from lightning and interference. It fully satisfies the needs of security video surveillance project.

WI-PMS305GF-I has robust security and management features. The IP-MAC-Port-VID Binding and Access Control List（ACL) functions protect against broadcast storms, ARP and Denial-of-Service(DoS) attacks, etc. Quality of Service (QoS, L2 to L4) provides enhanced traffic management capabilities to move your data smoother and faster. Anymore, the easy-to-use web management interfaces, along with CLI, SNMP, mean faster setup and configuration with less downtime. For work-group and departments requiring cost-sensitive Layer 2 Switch and gigabit capability, Wi-Tek L2 managed Switch WI-PMS305GF-I support fast ring ,support 30 pcs switches Max. in a cascade system, Self-healing in 20ms Min, provides you the ideal Industrial solution.

Secure Networking

Wi-Tek this WI-PMS305GF-I provides IP-MAC-Port-VID Binding, Port Security, Storm control and DHCP Snooping which protect against broadcast storms, ARP attacks, etc. It integrates some typical DoS attacks to select. You can protect these attacks more easily

ever than before. In addition, the Access Control Lists (ACL, L2 to L4) feature restricts access to sensitive network resources by denying packets based on source and destination MAC address, IP address, TCP/UDP ports and even VLAN ID. Moreover, the switch supports 802.1X authentication, which is used in conjunction with a RADIUS server to require some authentication information before access to the network is allowed.

Advanced QoS features

To integrate voice, data and video service on one network, the switch applies rich QoS policies. Administrator can designate the priority of the traffic based on a variety of means including IP or MAC address, TCP or UDP port number, etc, to ensure that voice and video are always clear, smooth and jitter free.

Abundant Layer 2 features

For more application of layer 2 switches, WI-PMS305GF-I supports a complete line up of layer 2 features, including 802.1Q tag VLAN, Port Isolation, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control function. Any more, the switch provides advanced features for network maintenance. Such as Loop Back Detection, Cable Diagnostics and IGMP Snooping. IGMP snooping ensures the switch intelligently forward the multicast stream only to the appropriate subscribers while IGMP throttling & filtering restrict each subscriber on a port level to prevent unauthorized multicast access.

Specification

HARDWARE FEATURES

Interface	5 10/100/1000Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX) 1 1000Mbps SFP Slots 1 Console Port 1 Alarm Input 1 Alarm Output 1 Temperature Sensor Port
Network Media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) 100BASE-TX/1000Base-T: UTP category 5, 5e, 6 or above cable (maximum 100m) 1000BASE-X: MMF, SMF 1000Base-L X:62.5μm/50μm MM(2m~550m) or 10μm SMF(2m~5000m)
Fan Quantity	Fanless
Surge Immunity	8KV Per: IEC61000-4-5
ESD Protection	ESD Level 4 Per: IEC61000-4-2 RS Level 4 Per: IEC61000-4-3 EFT Level 4 Per: IEC61000-4-4 CS Level 4 Per: IEC61000-4-6
External Power Supply	DC 12-37V 8A Max for Non-PoE DC 37-57V 8A Max for PoE

PoE Ports (RJ45)	PoE Ports: Port1- Port2 Standard: 802.3af/at and 24V Passive PoE compliant; PoE Ports: Port3- Port4 Standard: 802.3af/at/bt compliant;
Exchange Capacity	12G
Packet Forwarding Rate	18Mpps
Mac Address Table	4K
Packet Buffer Memory	8.7Mb
Jumbo Frame	10240 Bytes
Dimensions	Product Size： 165mm×125mm×40mm （L*W*H）

SOFTWARE FEATURES	
Quality of Service	Support 802.1p CoS/DSCP priority Support 4 priority queues Queue scheduling: SP, WRR, SP+WRR Port/Flow- based Rate Limiting
L2 Features	IGMP Snooping V1/V2/V3

SOFTWARE FEATURES	
	802.3ad LACP (Up to 8 aggregation groups, containing 8 ports per group) Spanning Tree STP/RSTP/MSTP Port isolation BPDU filtering/guard TC/Root protect Loop back detection 802.3x Flow Control
VLAN	Supports up to 4K VLANs simultaneously (out of 4K VLAN IDs) Port/ MAC/Protocol-based VLAN Management VLAN configuration
Access Control List	L2～L4 package filtering based on source and destination MAC address, IP address, TCP/UDP ports, 802.1p, DSCP, protocol and VLAN ID; Time Range Based
Security	IP-MAC-Port-VID Binding IEEE 802.1X Port/MAC Based authentication, Radius,Guest VLAN DoS Defence Dynamic ARP inspection (DAI) SSH v1/v2 SSL v2/v3/TLSv1 Port Security Broadcast/Multicast/Unknown-unicast Storm Control

SOFTWARE FEATURES	
Management	Web-based GUI and CLI management SNMP v1/v2c/v3,compatible with public MIBs DHCP/BOOTP Client,DHCP Snooping,DHCP Option82 CPU Monitoring Port Mirroring Time Setting: SNTP Integrated NDP/NTDP feature Firmware Upgrade: TFTP & Web System Diagnose: VCT SYSLOG & Public MIBS

OTHERS	
Certification	CE, FCC, RoHS
Package Contents	POE Switch Temperature Sensor Screw Driver Guide Book/Warranty Card
Environment	Working Temperature： -40℃～80℃ Storage temperature ： -40℃～90℃ Working Humidity ： 10%～90% RH non-condensing Storage Humidity： 5%～95% RH non-condensing