



**WI-PMS306GF-I**  
**4GE+2SFP Ports 48V L2 Managed**  
**Industrial PoE Switch with 4-Port PoE**  
**Data sheet**

## Highlights

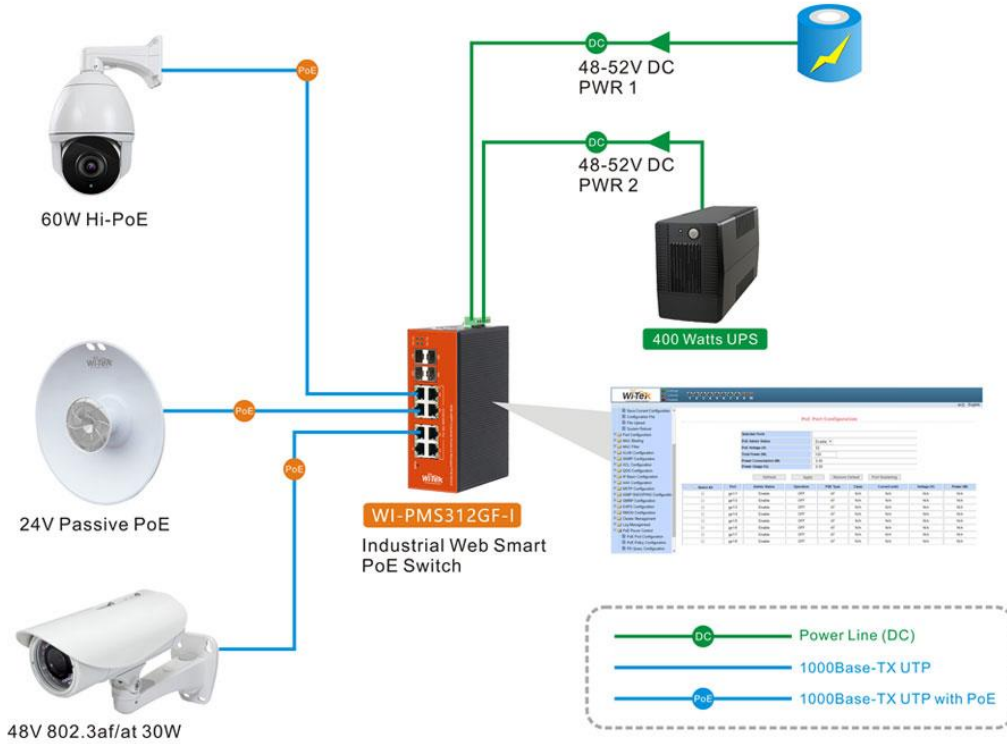
- Provide 4\*10/100/1000Base-T RJ45 ports, 2\*1000BASE-X SFP ports
- Port 3-4 support IEEE802.3bt 60W Hi-PoE
- Port 1-2 support 24V Passive PoE and 48V IEEE802.3at 30W Output, auto detect PoE to compatibility with different kind active and passive PoE Device
- Buffer reaches 4Mbit, Support 4K high-definition 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°C ~ 80°C 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)



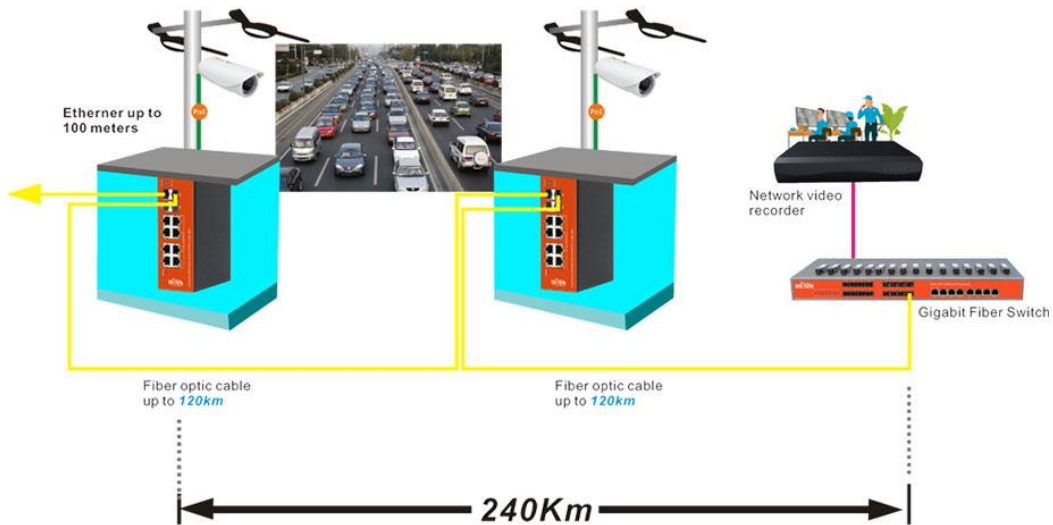
## Typical Application



Support 802.3af/at 30W PoE and 802.3bt 60W PoE and 24V Passive PoE

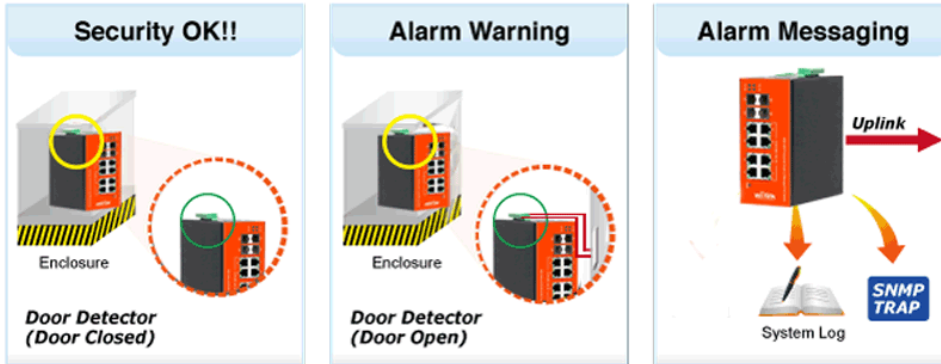


Extending Ethernet Distance

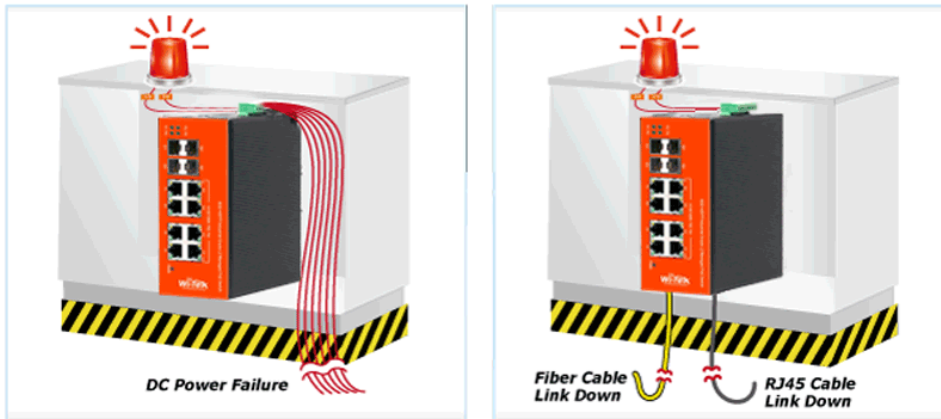


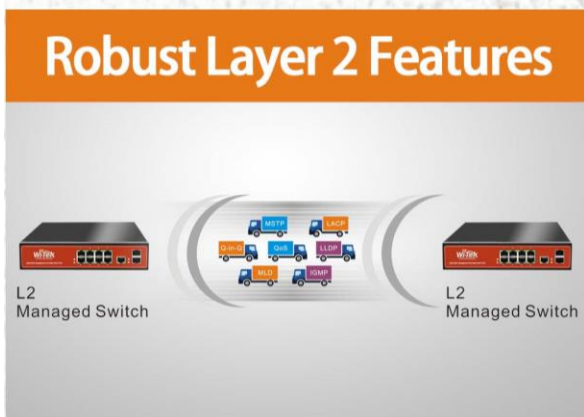
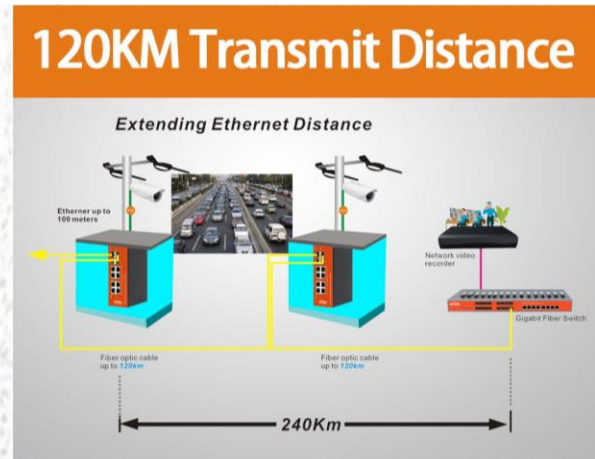
# Digital Input and Digital Output for External Alarm

## Digital Input



## Digital Output





## Product Description

### What This Product Does

WI-PMS306GF-I is L2 Ports Industrial Full Gigabit Managed Switch. Provide 4\*10/100/1000 Base-T Ethernet ports, 2\*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°C ~ 80°C, strong level of protection from lightning and interference. It fully satisfies the needs of security video surveillance project.

WI-PMS306GF-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-PMS306GF-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-PMS306GF-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-PMS306GF-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    |  |
|----------------------|--|
| <b>Interface</b>     | 4 10/100/1000Mbps RJ45 Ports<br>(Auto Negotiation/Auto MDI/MDIX)<br>2 1000Mbps SFP Slots<br>1 Console Port<br>1 Alarm Input<br>1 Alarm Output<br>1 Temperature Sensor Port |
| <b>Network Media</b> | 10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)<br>100BASE-TX/1000Base-T: UTP category 5, 5e, 6 or above cable (maximum 100m)  |

|                               |   |
|-------------------------------|---|
|                               | <p>1000BASE-X: MMF, SMF<br/> 1000Base-L X:62.5µm/50µm<br/> MM(2m~550m) or 10µm<br/> SMF(2m~5000m)</p>                                       |
| <b>Fan Quantity</b>           | Fanless   |
| <b>Surge Immunity</b>         | 8KV Per: IEC61000-4-5   |
| <b>ESD Protection</b>         | <p>ESD Level 4 Per: IEC61000-4-2 RS Level<br/> 4 Per: IEC61000-4-3 EFT<br/> Level 4 Per: IEC61000-4-4<br/> CS Level 4 Per: IEC61000-4-6</p> |
| <b>External Power Supply</b>  | <p>DC 12-37V 8A Max for Non-PoE<br/> DC 37-57V 8A Max for PoE</p>   |
| <b>PoE Ports (RJ45)</b>       | <p>Port1-2 Standard:<br/> 24V Passive /48V 802.3af/at<br/> PoE Ports: Port3- Port4<br/> Standard: 802.3af/at/bt compliant;</p>              |
| <b>Exchange Capacity</b>      | 12G   |
| <b>Packet Forwarding Rate</b> | 18Mpps  |
| <b>Mac Address Table</b>      | 4K  |
| <b>Packet Buffer Memory</b>   | 8.7Mb   |



|                    |  |
|--------------------|--|
| <b>Jumbo Frame</b> | 10240 Bytes                                    |
| <b>Dimensions</b>  | Product Size:<br>165mmx 125mmx 40mm<br>(L*W*H) |

| <b>SOFTWARE FEATURES</b>  |  |
|---------------------------|--|
| <b>Quality of Service</b> | Support 802.1p CoS/DSCP priority<br>Support 4 priority queues<br>Queue scheduling: SP, WRR, SP+WRR<br>Port/Flow- based Rate Limiting   |
| <b>L2 Features</b>        | IGMP Snooping V1/V2/V3<br>802.3ad LACP (Up to 8 aggregation groups, containing 8 ports per group)<br>Spanning Tree<br>STP/RSTP/MSTP<br>Port isolation<br>BPDU filtering/guard<br>TC/Root protect<br>Loop back detection<br>802.3x Flow Control |
| <b>VLAN</b>               | Supports up to 4K VLANs simultaneously (out of 4K VLAN IDs)<br>Port/ MAC/Protocol-based VLAN<br>Management VLAN configuration  |

## SOFTWARE FEATURES

### 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

### 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                  |  |
|-------------------------|--|
| <b>Certification</b>    | CE, FCC, RoHS  |
| <b>Package Contents</b> | POE Switch<br>Temperature Sensor<br>Screw Driver<br>Guide Book/Warranty Card   |
| <b>Environment</b>      | Working Temperature:<br>-40°C~80°C<br>Storage temperature :<br>-40°C~90°C<br>Working Humidity :<br>10%~90% RH<br>non-condensing<br>Storage Humidity:<br>5%~95% RH non-<br>condensing |