

24V/48V Mixed Industrial PoE Switch

WI-PS306GF-I WI-PS310GF-I WI-PMS305GF-I WI-PMS306GF-I WI-PMS312GF-I

Overview

Wi-Tek's 24V/48V mixed industrial PoE switch is designed to provide network transport solution for WISP and CCTV markets. Products are designed to automatically identify different PoE-powered requirements, compatible with 24V and 48V PoE-powered devices, provide high compatibility PoE solutions for various application scenarios, and one-time investments to meet various business requirements. It supports flexible and multiple installation methods, such as wall mounting and DIN-rail mounting methods.

Industrial-grade CPU and redundant power supply design, guarantee its stable and reliable operation even in harsh environments. And the abundant management functions design makes it an ideal choice for complex network projects.

Features

Flexible and supports various PoE powered devices

The PoE ports can auto-detect and output the required voltage of different PoE powered devices, provide high compatibility PoE solution for various application scenarios.

-40°C~80°C operating temperature

-40°C~80°C operating temperature design, guarantee its stable and reliable operation even in harsh environment.

Robust L2 management functions

Robust L2 management functions meet complex project requirements and can be deployed at one time without additional device investment. (WI-PMS305GF-I, WI-PMS306GF-I, WI-PMS312GF-I)

Fast ring, self-healing in 20ms

Support fast ring, self-healing in 20ms at minimum, improves network security and reliability, and better meets customers' network security requirements. (WI-PMS305GF-I, WI-PMS306GF-I, WI-PMS312GF-I)

Multiple Smart DIP Mode

VLAN Mode: All downlink ports are isolated from each other, but can communicate with uplink ports.

Extend Mode: The transmission distance of port 1-2 can be up to 250m, but the rate is limited to 10Mbps.

PWD/Watchdog Mode: PoE watchdog, all PoE ports enable PoE watchdog function, which can detect and reboot the offline compliant PoE powered devices.

FWD Mode: Fiber watchdog, monitor the fiber connection status and if no data is transmitted, the port will restart automatically.

24V/48V Switch (port 1/ port 2): PoE output voltage adjustment DIP switch for ports 1 and 2.



Specifications

| Products | WI-PS306GF-I | WI-PS310GF-I | WI-PMS305GF-I | WI-PMS306GF-I | WI-PMS312GF-I |
|------------------------|--|--|---|--|--|
| Hardware Version | V2 | V2 | V1 | V1 | V1 |
| Ethernet Ports | | | | | |
| Downlink Ports | 4*10/100/1000 Base-T PoE RJ-45 (Auto-MDI/MDI-X) | 8*10/100/1000 Base-T PoE RJ-45 (Auto-MDI/MDI-X) | 4*10/100/1000 Base-T PoE RJ-45 (Auto-MDI/MDI-X) | 4*10/100/1000 Base-T PoE RJ-45 (Auto-MDI/MDI-X) | 8*10/100/1000 Base-T PoE RJ-45 (Auto-MDI/MDI-X) |
| Uplink Ports | 2*1000 Base-X SFP | 2*1000 Combo Base-X SFP | 1*1000 Base-X SFP 1*10/100/1000 Base-T PoE RJ-45(Auto-MDI/MDI-X) | 2*1000 Base-X SFP | 4*1000 Base-X SFP |
| Console Port | N/A | | 1*RJ-45 to RS-232 console port (115200,8,N,1) | | |
| Alarm In/Out Interface | N/A | | Yes | | |
| TMS Ports | N/A | | 1*TMS | | |
| PoE | | | | | |
| PoE Standard | Ports 1-2 : 24V Passive 48V 802.3 af/at PoE Ports 3-4: 802.3 af/at/bt 60W | Ports 1-2 : 24V Passive 48V 802.3 af/at PoE Ports 3-4: 802.3 af/at/bt 60W Ports 5-8: 802.3 af/at PoE | Ports 1-2: 24V Passive 48V 802.3 af/at PoE 30W Ports 3-4: 802.3 af/at/bt PoE 60W Port 5: 802.3af/at/bt 60W PD | Ports 1-2 : 24V Passive 48V 802.3 af/at PoE Ports 3-4: 802.3 af/at/bt 60W | Ports 1-2 : 24V Passive 48V 802.3 af/at PoE Ports 3-4: 802.3 af/at/bt 60W Ports 5-8: 802.3 af/at PoE |
| PoE Power Supply Type | 802.3af/at: End-span 24 Passive: Mid-span 802.3 af/at/bt: Mid-span and End-span | | | | |
| PoE Budget | 180W | 300W | 180W/ 50W (PoE IN) | 180W | 300W |
| Switch Property | | | | | |
| Standards | IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z | | IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3ad, IEEE 802.1D, IEEE 802.1x | | |
| Forwarding Modes | Store and forward | | | | |
| Packet Buffer | 2.5Mbit | | 4.1Mbit | | |
| MAC Table | 2K | | 8K | | |
| Switching Capacity | 12Gbps / non-blocking | 20Gbps / non-blocking | 12Gbps / non-blocking | 12Gbps / non-blocking | 24Gbps / non-blocking |
| Packet Forwarding Rate | 8.93Mpps | 14.88Mpps | 8.93Mpps | 8.93Mpps | 17.86Mpps |
| Jumbo Frame | 10kB | | | | |
| Power Supply | | | | | |
| Input Voltage | PoE Switch: Power 1 (Main): 37~57V DC, Power 2 (Backup): 37~57V DC Non-PoE Switch: Power 1 (Main): 12~57V DC, Power 2 (Backup): 12~57V DC | | | | |
| Reliability | | | | | |
| Surge Immunity | 6KV, Standard: IEC6000-4-5 | | | | |
| ESD Protection | 8kV Contact Discharge, 15kV Air Discharge, Standard: IEC61000-4-2 | | | | |
| MTBF | about 30Wh | | | | |
| MTBF Standards | Telcordia SR-332, 25°C | | | | |
| Operating Temperature | -40°C~80°C | | | | |
| Storage Temperature | -40°C~85°C | | | | |
| Operating Humidity | 5%~95% (Non-condensation) | | | | |
| Physical Parameter | | | | | |
| Led Indicators | 2* power supply indicators 1* system working indicator 1* PoE Max indicator 2* SFP indicator 4* RJ45 PoE indicators 4* RJ45 Link indicators | 2* power supply indicators 1* system working indicator 1* PoE Max indicator 2* SFP indicator 8*RJ45 PoE indicators 10* RJ45 Link indicators | 2* power supply indicators 1* system working indicator 1* Ring indicator 1* SFP indicator 1*PD indicator 4* RJ45 PoE indicators 4* RJ45 Link indicators | 2* power supply indicators 1* system working indicator 1* Ring indicator 2* SFP indicator 4* RJ45 PoE indicators 4* RJ45 Link indicators | 2* power supply indicators 1* system working indicator 1* Ring indicator 4* SFP indicator 8* RJ45 PoE indicators 8* RJ45 Link indicators |
| Dip Switch | VLAN/Extend PWD/FWD | Extend/Watchdog 24V 48V (port 1/ port 2) | N/A | | |
| Dimensions (W*D*H) | 167*125*42mm | 200*140*50mm | 165*125*40mm | | 200*140*50mm |
| Net Weight | 1.1kg | 1.5kg | 1kg | 1.35kg | 1.4kg |
| Material | Metal shell | | | | |
| Installation | DIN-rail/wall mounting | | | | |
| Certifications | | | | | |
| Certifications | CE, FCC | | | | |

| Software Features (WI-PMS305GF-I, WI-PMS306GF-I, WI-PMS312GF-I) | |
|---|---|
| Industrial Switch Monitoring | Temperature sensor, alarm input and output |
| Spanning Tree | IEEE 802.1D -STP |
| | IEEE 802.1w -RSTP |
| | IEEE 802.1s -MSTP |
| Reliability | Port Loop Detection |
| | EAPS |
| | ERPS |
| | LLDP/LLDP-MED |
| | UDLD |
| VLAN | Max 4K VLAN Groups |
| | 802.1q Tagged VLAN |
| | MAC-Based VLAN |
| | IP-Based VLAN |
| | Protocol-Based VLAN |
| | QinQ |
| | 802.1q-Based VLAN |
| | Voice VLAN |
| Port | LACP |
| | Jumbo Frame |
| | Port Shutdown |
| | Link Aggregation (Up to 8 aggregation groups and up to 8 ports per group) |
| | Port Mirroring (One-to-One Many-to-One Tx/Rx/Both) |
| Security | IP-MAC-Port Binding |
| | Support Static and Dynamic ARP |
| | DHCP Snooping |
| | IEEE802.1x AAA |
| | RADIUS/TACACS+ |
| | RADIUS |
| | Port Isolation |
| | Port Based Authentication |
| | Secure Command Line Interface (CLI) Management With SSHv1/SSHv2 |
| | Broadcast/Multicast/Uni-cast Storm Control |
| Port MAC Address Filtering | |
| Access Control List | Standard IP-Based ACL |
| | Extended IP Based ACL |
| | MAC IP-Based ACL |
| | MAC ARP-Based ACL |
| | IPv6-Based ACL |
| | ACL Port Filtering |
| | Time-Based ACL |
| QOS | Port-Based (uplink and downlink traffic of a single port can be restricted) |
| | 802.1p-Based Classification |
| | Support WRR, SP, WFQ |
| | DISC-Based Classification |
| | CAL-Based Classification |
| L2 Multicast | IGMP Snooping V1/V2/V3 |
| | MLD Snooping |
| | MVR |

| Software Features (WI-PMS305GF-I, WI-PMS306GF-I, WI-PMS312GF-I) | |
|---|--|
| Industrial Switch Monitoring | Ipv4/Ipv6 Dual Protocol Stack |
| IPv6 | IPv6 Neighbor Discovery |
| | Support manual address configuration, stateless address auto-configuration and tasteful address configuration obtained through DHCPv6 client |
| | IPv6 TFTP |
| | IPv6 SNMP |
| | ICMPv6 |
| | IPv6 Path MTU Discovery |
| | IPv6 SSH |
| | Tracert6 |
| Management | Web-Based GUI |
| | Command Line Interface (CLI) through console port, telnet and SSH |
| | SNMPv1/v2c/v3 Trap/Inform RMON (1, 2, 3, 9) groups |
| | Password Recovery |
| | SNTP |
| | System Log |
| | Traceroute |
| | Ping |
| | CPU Monitoring |
| | Firmware Upgrade |
| | Configuration Export/Import |
| | Support SNTP Based IPv4 and IPv6 |
| | DHCP/BOOTP Client |

Package Content

Welcome to order our products. After purchasing, you will receive:

| Items | Quantity |
|---|----------|
| Industrial Switch | 1 pcs |
| Temperature Sensor (Only for WI-PMS305GF-I/WI-PMS306GF-I/WI-PMS312GF-I) | 1 pcs |
| Screw Driver (Only for WI-PMS305GF-I/WI-PMS306GF-I/WI-PMS312GF-I) | 1 pcs |
| Quick Installation Guide | 1 pcs |



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Technical Support



Cloud Management



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