**WI-TEK**
Communication Solution

# Hardened PoE Switch

WI-PS206GF-I  WI-PS208-I  WI-PS206-I  WI-PS212GF-I

## Overview

Wi-Tek's hardened PoE switch is designed to provide network transport solution for CCTV market. PoE watchdog smart function, can monitor and recover the operation of IP camera persistently and automatically. 250 meters extend mode design, makes it an ideal choice for long distance PoE transmission application. It support flexible and multiple installation method, such as wall mounting and DIN-Rail mounting method. Redundant power supply design, guarantee its stable and reliable operation.

## Features

### -30℃~65℃ operating temperature

-30℃~65℃ operating temperature design, guarantee its stable and reliable operation even in harsh environment.

### Din-rail mounting design

Din-rail mounting design, can perfectly meet the requirements of standard project assembly.

### Smart PoE watchdog function

Smart PoE watchdog function, can monitor and recover the operation of compliant IP camera persistently and automatically.



### Support 60W high power PoE

60W high PoE power can meet more requirement of PoE powered devices, such as speed dome, PTZ dome, etc.

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**W**e **I**nnovate, **T**ake you **E**xplore un**K**nown!

# Specifications

| Products | WI-PS206GF-I | WI-PS206GF-I | WI-PS208-I | WI-PS206-I | WI-PS210GF-I | WI-PS212GF-I |
|---|---|---|---|---|---|---|
| Hardware Version | V2 | V1 | V1 | V2 | V2 | V1 |
| **Ethernet Ports** | | | | | | |
| Downlink Ports | 4*10/100 Base-T PoE RJ-45(Auto-MDI/MDI-X) | 4*10/100 Base-T PoE RJ-45(Auto-MDI/MDI-X) | 8*10/100 Base-T PoE RJ-45 (Auto-MDI/MDI-X) | 4*10/100 Base-T PoE RJ-45 (Auto-MDI/MDI-X) | 8*10/100 Base-T PoE RJ-45 (Auto-MDI/MDI-X) | 8*10/100 Base-T PoE RJ-45 (Auto-MDI/MDI-X) |
| Uplink Ports | 1*1000 Base-X SFP 1*10/100/1000 Base-T RJ-45(Auto-MDI/MDI-X) | 1*1000 Base-X SFP 1*10/100/1000 Base-T RJ-45(Auto-MDI/MDI-X) | N/A | 2*10/100 Base-T RJ-45(Auto-MDI/MDI-X) | 1*1000 Base-X SFP 1*10/100/1000 Base-T RJ-45(Auto-MDI/MDI-X) | 2*1000 Base-X SFP 2*10/100/1000 Base-T RJ-45(Auto-MDI/MDI-X) |
| **PoE** | | | | | | |
| PoE Standard | Ports 1 : 802.3 af/at/bt 60W Ports 2-4: 802.3 af/at PoE | Ports 1-4: 802.3 af/at PoE | Ports 1-2 : 802.3 af/at/bt 90W Ports 3-8: 802.3 af/at PoE | Ports 1 : 802.3 af/at/bt 90W Ports 2-4: 802.3 af/at PoE | Ports 1-2 : 802.3 af/at/bt 60W Ports 3-8: 802.3 af/at PoE | Ports 1-8: 802.3 af/at PoE |
| PoE Power Supply Type | End-span | | | | | |
| PoE Budget | 180W | 120W | 360W | 180W | 300W | 240W |
| **Switch Property** | | | | | | |
| Standards | 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 | 3.57M | | | | | |
| MAC Table | 2K | | | | | |
| Switching Capacity | 4.8Gbps / non-blocking | | 1.6Gbps / non-blocking | 1.2Gbps / non-blocking | 5.6Gbps / non-blocking | |
| Packet Forwarding Rate | 3.57Mpps | | 1.19Mpps | 0.89Mpps | 17.86Mpps | |
| Jumbo Frame | 10kB | | | | | |
| **Power Supply** | | | | | | |
| Input Voltage | Power 1 (Main): 48~55V DC, Power 2 (Backup): 48~55V DC,Power 3(DC Jack): 48~55V DC | | | | | |
| **Reliability** | | | | | | |
| Surge Immunity | 8kV, 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℃ | | | | | |
| Operating Temperature | -30℃~65℃ | -30℃~65℃ | -30℃~65℃ | -30℃~65℃ | -30℃~65℃ | -30℃~65℃ |
| Storage Temperature | -40℃~85℃ | | | | | |
| Operating Humidity | 5%~95% (Non-condensation) | | | | | |
| **Physical Parameter** | | | | | | |
| Dip Switch | VLAN/Extend/PWD/FWD | 250m PoE/VLAN | VLAN/Extend/PWD/FWD | VLAN/Extend/PWD/FWD | VLAN/Extend/PWD/FWD | 250m PoE/VLAN |
| Dimensions (W*D*H) | 167*125*42mm | | 119*87*28mm | 119*87*28mm | 167*125*42mm | |
| Net Weight | 1.1kg | | 1kg | 0.5kg | 1.5kg | |
| Installation | DIN-rail/wall mounted | | | | | |
| **Certifications** | | | | | | |
| Certifications | CE, FCC | | | | | |

| Software Features | |
|---|---|
| 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 |

| Software Features | | |
|---|---|---|
| QOS | Support WRR, SP, WFQ | |
| | DISC-Based Classification | |
| | CAL-Based Classification | |
| L2 Multicast | IGMP Snooping V1/V2/V3 | |
| | MLD Snooping | |
| | MVR | |
| IPv6 | IPv4/IPv6 Dual Protocol Stack | |
| | 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 | |
| **Other** | | |
| Package Contents | PoE Switch<br>Guide Book/Warranty Card | |

CE FC RoHS

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