

# 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

## WI-PS306GF-DC-I-v2

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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