

24V/48V Mixed Industrial PoE Switch

WI-PS306GF-I WI-PS310GF-I WI-PMS305GF-I WI-PMS306GF-I WI-PMS312GF-I WI-PMS310GF-Alien-I

Overview

Wi-Tek's 24V/48V mixed industrial PoE switch is designed to provide network transport solution for WISP and CCTV markets. The PoE ports are able to auto detect and output the required voltage of different PoE powered devices, provide high compatibility PoE solution for various application scenarios. It support flexible and multiple installation method, such as wall mounting and DIN-Rail mounting method.

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

Features

Flexible and supports various PoE powered devices

The PoE ports are able to 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.

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.

Robust L2 management functions

Robust L2 management functions meet complex project requirements and can be deployed at one time without additional device investment.

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.





Specifications

Products	WI-PS306GF-I	WI-PS310GF-I	WI-PMS305GF-I	WI-PMS306GF-I	WI-PMS312GF-I	WI-PMS310GF-Alien-I	WI-PMS310GF-Alien-I	
Hardware Version	V2	V2	V1	V1	V1	V1	V2	
Ethernet Ports	•	I	1	I				
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)	8*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	2*1000 Base-X SFP	2*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			-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 1-8 : 24V Passive /48V 802.3af/at PoE	Ports 1-2 : 802.3 af/at/bt 60W Ports 3-8 : 24V Passive/ 48V 802.3af/at PoE	
PoE Power Supply Type				End-span		•		
PoE Budget	180W	240W	180W	180W	240W	240W	300W	
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	2.5Mbit 4.1Mbit							
MAC Table	2	к		8К				
Switching Capacity	12Gbps / non-blocking	20Gbps / non-blocking	12Gbps / non-blocking	12Gbps / non-blocking	24Gbps / non-blocking	20Gbps / non-blocking	20Gbps / non-blocking	
Packet Forwarding Rate	8.93Mpps	14.88Mpps	8.93Mpps	8.93Mpps	17.86Mpps	14,88Mpps	14,88Mpps	
Jumbo Frame		I	1	10kB	1	1	I	
Power Supply								
Input Voltage	Power 1 (Main): 37~57V DC, Power 2 (Backup): 37~57V DC Power 1 (Main): 37~57V DC Power 1 (Main): 37~57V DC, Power 2 (Backup): 37~57V DC Boost power 2 (Backup): 37~57V DC					up): 37~57V 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	2* power supply indicators 1* system working indicator 2* SFP indicator 8* Rj45 PoE indicators 8* Rj45 Link indicators	2* power supply indicators 1* system working indicator 2* SFP indicator 8* Rj45 PoE indicators 8* Rj45 Link indicators	
Dip Switch	VLAN/Extend/PWD/FWD	Extend/Watchdog /24/48V			N/A			
Dimensions (W*D*H)	167*125*42mm	200*140*50mm	165*125	5*40mm	200*140*50mm	167*130*73mm	167*130*73mm	
Net Weight	1.1kg	1.5kg	1kg	1.35kg	1.4kg	1.7kg	1.7kg	
Material		Metal shell						
Installation	DIN-rail/wall mounted							
Certifications								
Certifications	CE, FCC							
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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					
	LACP					
	Jumbo Frame					
Port	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)					
	IP-MAC-Port Binding					
	Support Static and Dynamic ARP					
	DHCP Snooping					
	IEEE802.1x AAA					
	RADIUS/TACACS+					
Security	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					
	Standard IP-Based ACL					
	Extended IP Based ACL					
	MAC IP-Based ACL					
Access Control List	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					
	IGMP Snooping V1/V2/V3					
L2 Multicast						
	MLD Snooping					
	MVR					





Software Features						
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					
Other						
Package Contents	Temperature Sensor, Screw Driver (Only for WI-PMS305GF-I/WI-PMS306GF-I/WI-PMS312GF-I/WI-PMS310GF-Alien-I V2) Industrial Switch Guide Book/Warranty Card					





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Technical Support

Cloud Management

Company Website

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