WI-TEK
Communication Solution

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Boost Voltage Industrial PoE Switch

WI-PS305GF-I-DC | WI-PMS310GF-Alien-I

Overview

Wi-Tek's boost voltage industrial PoE switch is designed to provide network transport solution for CCTV and WISP markets. Products are able to work with the solar power, the voltage boost technology makes the low input voltage of solar power can be converted to 48V PoE output voltage, which ensures the PoE powered devices such as IP camera can be powered on stably. And it can also work with backup battery for emergency power supply.

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

Boost voltage technology

This series switch can work with 9-52V DC input power supply, such as solar power and emergency backup battery. The voltage boost technology makes the low input voltage can be converted to 48V PoE output voltage, which ensures the PoE powered devices such as IP camera can be powered on stably.

-40℃~80℃ operating temperature

-40℃~80℃ 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.
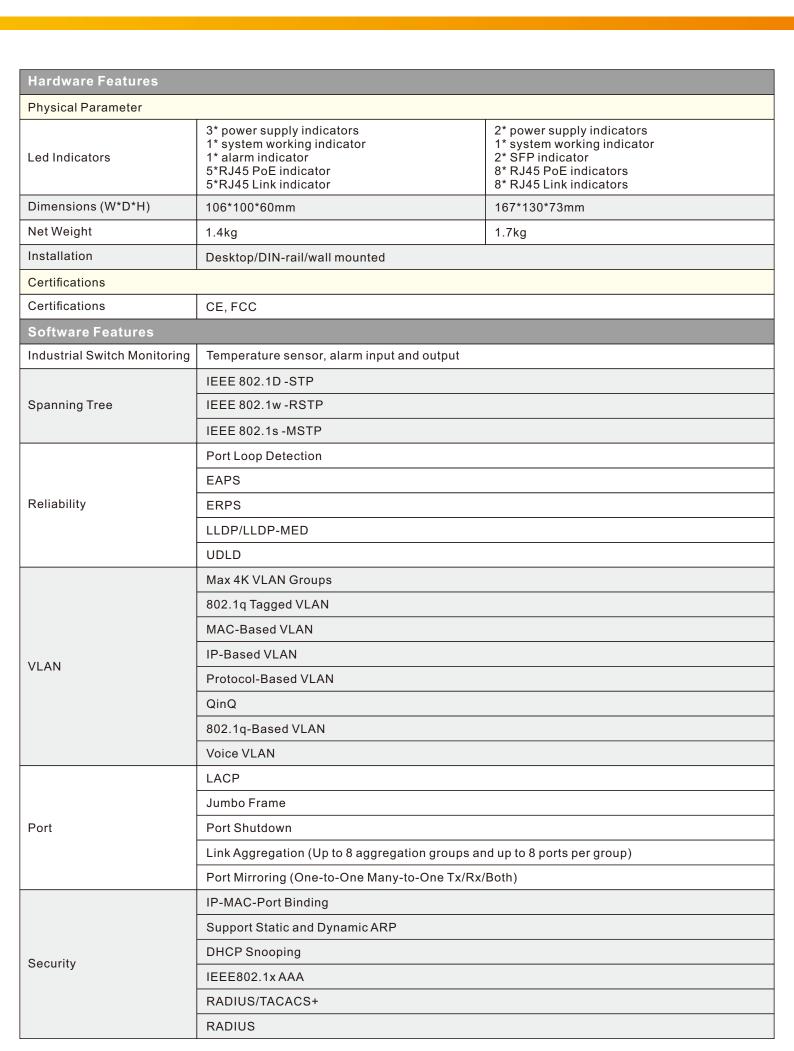
Specifications

Model	WI-PS305GF-I-DC	WI-PMS310GF-Alien-I
Hardware Features		
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)
Uplink Ports	1*10/100/1000 Base-T PoE RJ-45(Auto-MDI/MDI-X)	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
PoE		
PoE Standard	Ports 1-4: 802.3 af/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	120W	360W
Boost PoE Budget	120W	120W
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	2K	8K
Switching Capacity	12Gbps / non-blocking	20Gbps / non-blocking
Packet Forwarding Rate	8.93Mpps	14,88Mpps
Switch Property		
Input Voltage	Power 1 (Main): 37~57V DC, Power 2 (Backup): 37~57V DC Boost Power 3: 12-50V	
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℃	
Operating Temperature	-40℃~80℃	
Storage Temperature	-40℃~85℃	
Operating Humidity	5%~95% (Non-condensation)	
Physical Parameter		
Dip Switch	PoE dog/Vlan/Ex-1/Ex-2/	N/A

Hardware Features		
Physical Parameter		
Led Indicators	3* power supply indicators 1* system working indicator 1* alarm indicator 5*RJ45 PoE indicator 5*RJ45 Link indicator	2* power supply indicators 1* system working indicator 2* SFP indicator 8* RJ45 PoE indicators 8* RJ45 Link indicators
Dimensions (W*D*H)	106*100*60mm	167*130*73mm
Net Weight	1.4kg	1.7kg
Installation	Desktop/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	

Software Features		
Security	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	
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	

Software Features		
Management	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-PMS310GF-Alien-I) Industrial Switch Guide Book/Warranty Card	

CE FC RoHS

Wireless-Tek Technology Limited

Address: Room 402 4F, BiaoFan Technology Building, Bao'An Avenue, FuYong Town, Bao'An district, ShenZhen

Website:www.wireless-tek.com

Tel:86-0755-32811290

Email:sales@wireless-tek.com

Technical Support:tech@wireless-tek.com

Technical Support   Cloud Management   Company Website