

Cloud L2+ Industrial Switch

WI-PCMS306GF-I | WI-PCMS310GF-I | WI-PCMS312GF-BT-I



Hardware version: V2.0

Overview

Wi-Tek industrial cloud L2+ managed switch provide 4/8 Gigabit PoE+/PoE++ RJ-45 ports and 2/4 Gigabit SFP uplink slots. This series switch supports cloud management which can work with Wi-Tek cloud platform, makes it can be easily and remotely managed which supports L2+ management functions, such as VLAN, STP/RSTP/MSTP, port mirroring, IGMP, QoS, multicast, ACL, ERPS protocol, Static Routing, DHCP, IPv6, etc.

Professional design providing a flexible, easy to use and reliable industrial network solution. Redundant power design with polarity reverse/over-voltage/over-current protection, guarantee the safe power supply Solid shell, wide operation temperature from -40°C to 75°C , ensure its stable and reliable operation even in harsh environment.

It is the best choice for outdoor CCTV project, wireless coverage project and the projects of industrial application scenarios such as factory, park, roadway and transportation.

Features

-40~75°C Operating Temperature

-40~75°C working temperature design, makes it meet the requirement of harsh application environment.

Industrial Level Protection Design

6kV surge immunity, 8kV ESD protection, and -40~75 working temperature design make it an ideal choice for industrial application scenarios.

Cloud Management Design

It supports cloud management which can work with Wi-Tek cloud platform, makes it can be easily and remotely managed.

Multiple Smart DIP Mode

Fast ring: support one-key fast ring configuration
SCP: support one-key broadcast storm suppression configuration.

Abundant L2+ Managed Features

The Cloud L2+ Managed PoE switches support a complete line up of L2 features, including 802.1Q VLAN, Port Mirroring, STP/RSTP/MSTP, ERPS, DHCP server, Link Aggregation Control Protocol, and 802.3x Flow Control function. Any more, the switch provides advanced features for network maintenance, such as Loopback Detection, Cable Diagnostics, and IGMP Snooping. Moreover, L2+ managed switches support L2+ feature static routing, which is a simple way to provide segmentation of the network with internal routing through the switch and helps network traffic for more efficient use. the switch and helps network traffic for more efficient use.

Specifications



Model	WI-PCMS306GF-I		WI-PCMS310GF-I	WI-PCMS312GF-BT-I	
Hardware Specifications					
Hardware Version	V2		V2	V2	
Interfaces					
Downlink Ports	4 x 100/1000Mbps RJ45 ports		8 x 100/1000Mbps RJ45 ports	8 x 100/1000Mbps RJ45 ports	
Uplink Ports	2 x 1000Mbps SFP ports		2 x 1000Mbps SFP ports	4 x 1000Mbps SFP ports	
Management Port	1 x Console Port				
PoE					
PoE Port	Port 1–4		Port 1–8	Port 1–8	
PoE Standard	802.3af/at			802.3af/at/bt	
PoE Power Supply Type	End-span			Mid-span and End-span	
PoE Pin Assignment	1/2(–),3/6(+)			1/2(+), 3/6(–) , 4/5(+), 7/8(–)	
PoE Power	30 W max for each port, 120 W Max. (PoE power budget)		30 W max for each port, 120 W Max. (PoE power budget)	90 W max for each port, 460 W Max. (PoE power budget)	
Switch Property					
Standards and Protocols	IEEE 802.3	IEEE 802.3u		IEEE 802.3	IEEE 802.3u
	IEEE 802.3ab	IEEE 802.3z		IEEE 802.3ab	IEEE 802.3z
	IEEE 802.3x	IEEE 802.1x		IEEE 802.3x	IEEE 802.1x
	IEEE802.1q	IEEE 802.1p		IEEE802.1q	IEEE 802.1p
	IEEE 802.1d	IEEE 802.1w		IEEE 802.1d	IEEE 802.1w
	IEEE 802.3ad	IEEE802.3af		IEEE 802.3ad	IEEE 802.3af
	IEEE802.3at			IEEE 802.3at	IEEE 802.3bt
0Forwarding Mode	Store and Forward				
Switching Capacity	12 Gbps		20 Gbps	24 Gbps	
Packet Forwarding Rate	8.93 Mpps		14.88 Mpps	17.86 Mpps	
MAC Address Table	8 k				
Packet Buffer Memory	4.1 Mbit				
Jumbo Frame	10 kB				



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Power Supply				
Input Power	Power 1 (Main): 48–57V DC, Power 2 (Backup): 48–57V DC			
Power Consumption	Idle: 2 W 100% Traffic Rate with PoE: 122 W	Idle: 2.2 W 100% Traffic Rate with PoE: 122.2 W	Idle: 5 W 100% Traffic Rate with PoE: 465 W	
Physical Characteristics				
LED Indicators	P Steady on: the device power on is normal Off: the device is power off or failed			
	S Off: device system initialization Blinking: The system is working properly			
	Link(Green) Steady on: ports link up Blinking: data on TX/RX Off: ports link down			
	PoE(Yellow) Steady on: PoE working Off: PoE not working			
	Fiber ports indicators Steady on: ports link up Green Blinking: data on TX/RX Off: ports link down			
Buttons				
DIP Switch	Fast ring support one–key fast ring configuration			
	SCP support one–key broadcast storm suppression configuration			



Model		WI-PCMS306GF-I	WI-PCMS310GF-I	WI-PCMS312GF-BT-I
Reset		Hold for >5 sec.to restore factory default		
Fan Quantity		Fanless		
Switch Dimensions		110*92*46 mm		145*109*62 mm
Package Dimensions		234*190*86 mm		
Weight		Net Weight: 0.48 kg	Net Weight: 0.51 kg	Net Weight: 1.10 kg
		Package Weight: 0.83 kg	Package Weight: 0.86 kg	Package Weight: 1.45kg
Installation		Desktop, DIN-rail		
Reliability	Surge Immunity	IEC 61000-4-5 Common mode 6kV Differential mode 2kV		
	ESD Protection	IEC 61000-4-2 Contact discharge 6kV Air discharge 8kV		
Operating Environment		-40℃~75℃, 5%~95% (Non-condensation)		
Storage Environment		-40℃~85℃, 0%~95% (Non-condensation)		
Certification				
Certification		CE, FCC, RoHS, UKCA, RCM		



Model	WI-PCMS306GF-I	WI-PCMS310GF-I	WI-PCMS312GF-BT-I
Software Features			
QoS	8 priority queues		
	802.1p CoS/DSCP priority		
	Queue scheduling(SP (Strict Priority);WRR (Weighted Round Robin);SP+WRR		
	Bandwidth Control(Port/Flow based Rating Limiting)		
	Policy Config		
	Class-Map Config		
	Policy-Map Config		
	Policy Mark Config		
	Policy Bandwidth		
	Policy VLAN		
L2+	IPv4/IPv6 Interfaces		
	Static Routing(512 static routes)		
	Static ARP		
	8K ARP Entries		
	ARP timeout		
	Gratuitous ARP		
	DHCP Server		
	DHCP Relay		
	DHCP L2 Relay		
Link Aggregation	Static link aggregation		
	802.3ad LACP		
	Up to 8 aggregation groups and up to 8 ports per group		
Spanning Tree Protocol	802.1d STP		
	802.1w RSTP		
	802.1s MSTP		
	STP Security: TC Protect, BPDU Filter, BPDU Protect, Root Protect, Loop Protect		



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Loopback Detection	Port-based		
	VLAN based		
Flow Control	802.3x Flow Control		
	HOL Blocking Prevention		
Mirroring	Port Mirroring		
	CPU Mirroring		
	One-to-One		
	Many-to-One		
	Tx/Rx/Both		
L2 Multicast	Supports IPv4/IPv6IGMP groups		
	IGMP Snooping		
	IGMP v1/v2/v3 Snooping		
	Immediately-leave		
	IGMP Snooping Querier		
	IGMP Authentication		
	IGMP Proxy		
	MVR		
	MLD Snooping		
	MLD v1/v2 Snooping		
	Immediately-leave		
	MLD Snooping Querier		
	Static Group Config		
	Limited IP Multicast		
	Multicast Filtering		



Model	WI-PCMS306GF-I	WI-PCMS310GF-I	WI-PCMS312GF-BT-I
VLAN	VLAN Group		
	Max. 4K VLAN Groups		
	802.1Q tag VLAN		
	MAC VLAN		
	Protocol VLAN		
	GVRP		
	Voice VLAN		
	Port-Based QinQ		
	Tunnel TPID (0x8100, 0x9100, 0x9200, ProtocolID)		
	OUI-Based VLAN		
Access Control List	MAC ACL		
	Source MAC		
	Destination MAC		
	Packet Type (Untagged-eth2, Untagged-802.3, Tagged-eth2, Tagged-802.3)		
	VLAN ID		
	Ether Type		
	IP ACL		
	Source IP		
	Destination IP		
	Fragment Packet		
	IP Protocol		
	IP Precedence		
	TCP/UDP Port		
	DSCP/IP TOS		
	Combined ACL		
	IPv6 ACL		
	icmp/tcp/udp		
	Mirroring		
	Attached Direction(Ingress/Traffic-statistic)		



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Access Control List	QoS Remark		
	ACL apply to Port/VLAN		
	Time-based ACL		
Security	IP-MAC-Port Binding		
	DHCP Snooping		
	ARP Inspection		
	IPv4 secure-port		
	DHCPv6 Snooping		
	snooping remote-id		
	snooping subscriber-id		
	IPv6 security-ra		
	DoS Defend		
	DHCP Filter		
	Static/Dynamic Port Security		
	Broadcast/Multicast/Unicast Storm Control		
	kbps/pps control mode		
	802.1X		
	Port base authentication		
	Mac base authentication		
	VLAN Assignment		
	Guest VLAN		
	Support RADIUS authentication and accountability		
	AAA(includingTACACS+)		
	Port Isolation		
	Secure web management through HTTPS with SSLv3/TLS1.2		
	Secure Command Line Interface (CLI) management with SSHv1/SSHv2		
	IP/Port/MAC-based access control		



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Ipv6	IPv6 Dual IPv4/IPv6		
	Multicast Listener Discovery (MLD) Snooping		
	IPv6 ACL		
	IPv6 Interface		
	Static IPv6 Routing		
	IPv6 neighbor discovery (ND)		
	Path maximum transmission unit (MTU) discovery		
	Internet Control Message Protocol (ICMP) version 6		
	TCPv6/UDPv6		
	IPv6 applications		
	DHCPv6 Client		
	Ping(v6)		
	Tracert(v6)		
	Telnet(v6)		
	IPv6 SNMP		
	IPv6 SSH		
	IPv6 SSL		
	Http/Https		

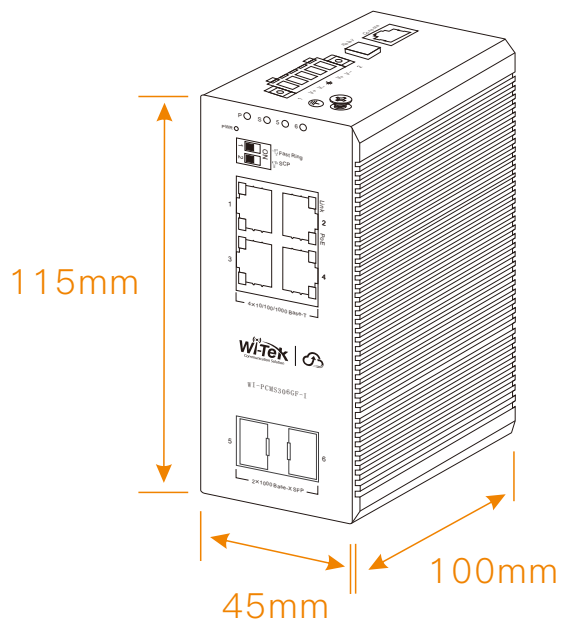


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Advanced Features	802.3ah Ethernet Link OAM		
	ERPS		
	Cloud Management		
	ONVIF(ONVIF Detection,ONVIF Server(NLM))		
	Batch Firmware Upgrading		
	Intelligent Network Monitoring Abnormal Event Warnings		
	Automatic Device Discovery		
	Support Remote Management		
	Support Cloud VLAN Configuration		
	Support Topology Display		
	Support Cloud Control Port Configuration		
Management Features	Web-based GUI		
	Command Line Interface(CLI) through consoleport,telnet		
	SNMPv1/v2c/v3		
	Trap/Inform		
	RMON(1,2,3,9groups)		
	DHCP/BOOTP Client		
	802.1ab LLDP/LLDP-MED		
	CPU Monitoring		
	Cable Diagnostics		
	EEE		
	Password Recovery		
	SNTP		
	System Log		
System	Ping		
	Traceroute		
	Firmware Upgrade		
	DDMI		

Appearances and Dimensions

WI-PCMS306GF-I

Dimensions (mm)



Front Panel

4 100/1000Mbps PoE+ Ports

2 100/1000Mbps SFP Ports

Side Panel

1 x Console Port

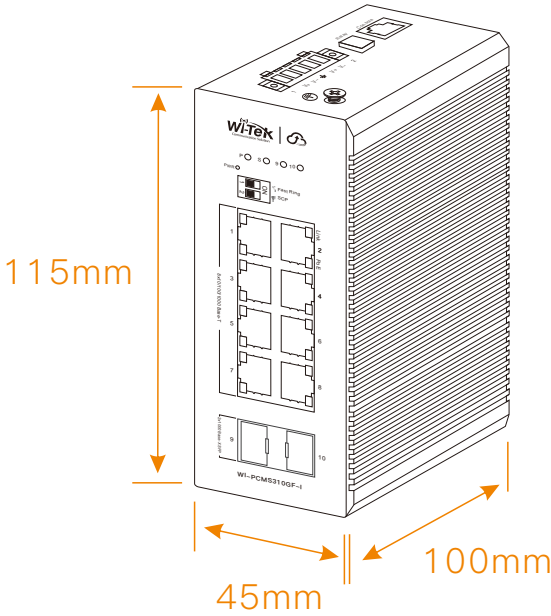
V1 DC Power Supply Input

V2 DC Power Supply Input

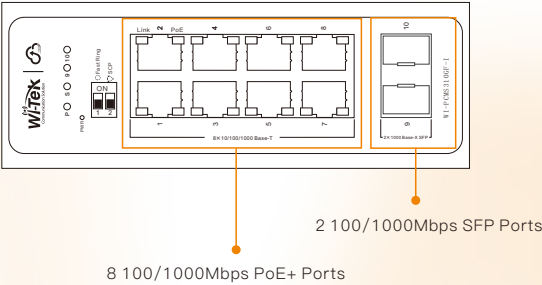
Grounding

WI-PCMS310GF-I

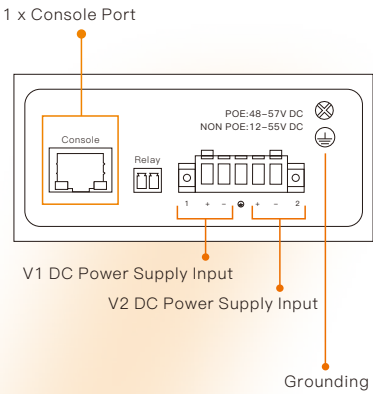
Dimensions (mm)



Front Panel

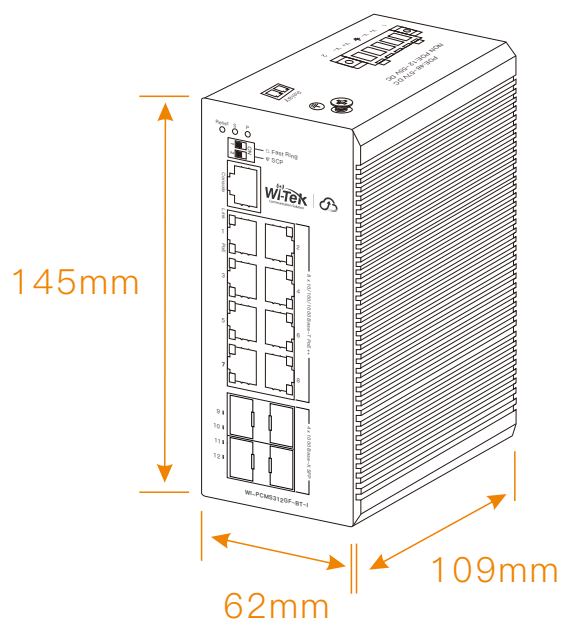


Side Panel

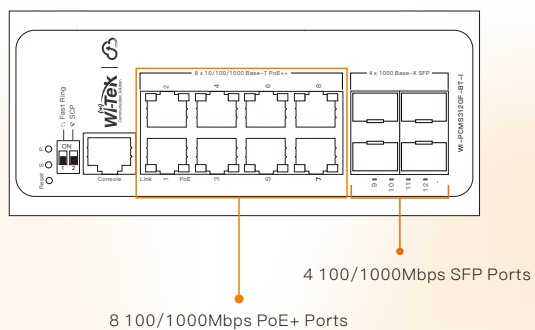


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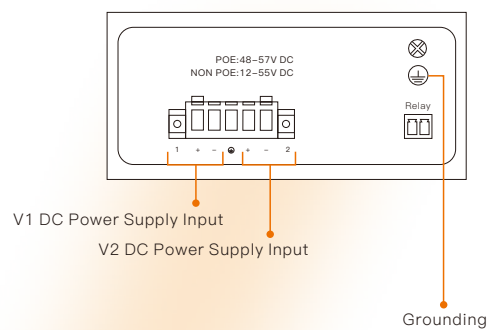
Dimensions (mm)



Front Panel



Side Panel



Package Contents

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

Items	Quantity
Switch	1 pcs
RJ-45 to Serial Port Cable	1 pcs
Phoenix terminal	1 pcs
Quick Installation Guide	1 pcs



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Technical Support



Cloud Management



Company Website