

# Industrial Cloud Managed Switch

WI-PCMS306GF-I | WI-PCMS310GF-I

## Overview

Wi-Tek industrial cloud managed switch provide 4/8 Gigabit PoE RJ-45 ports and 2 Gigabit SFP uplink slots. All RJ-45 ports comply with 802.3af/at PoE (PoE+) standard and output up to 30W PoE power per port.

This series switch supports cloud management which can work with Wi-Tek cloud platform, makes it can be easily and remotely managed. This series switch also supports L2 management functions, such as VLAN, STP/RSTP/MSTP, port mirroring, IGMP, QoS, multicast, ACL, PoE management, ERPS protocol, 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

### Full Gigabit Interfaces Design

#### WI-PCMS306GF-I:

4×10/100/1000 Base-T PoE+ ports and 2×1000 Base-X SFP

#### WI-PCMS310GF-I:

8×10/100/1000 Base-T PoE+ ports and 2×1000 Base-X SFP

### -40~75°C Operating Temperature

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

### Industrial Level Protection Design

6kV surge immunity, 8kV air discharge and 6kV contact discharge ESD protection, makes it an ideal choice for outdoor application scenario.

### Cloud Managed Design

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

### L2 Managed Functions

Support abundant L2 management functions, such as VLAN, STP/RSTP/MSTP, port mirroring, IGMP, QoS, multicast, ACL, PoE management, ERPS protocol, DHCP, IPv6, can meet the requirement of simple industrial project.

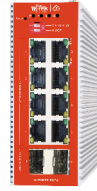
### Multiple Smart DIP Mode

Fast ring: support one-key fast ring configuration.

SCP: support one-key broadcast storm suppression configuration.



# Specifications



Model	WI-PCMS306GF-I	WI-PCMS310GF-I
Hardware Specification		
Interfaces		
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	2*1000 Base-X SFP	
Management port	1*RJ45 Console	
PoE		
PoE Standard	IEEE 802.3af/at (PSE)	
PoE Power Supply Type	End-span	
PoE Pin Assignment	1/2(+), 3/6(-)	
PoE Power Output	46~55V DC	
PoE Power	30W max for each port, 120W max	30W max for each port, 240W max
Switch Property		
Standards	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3z IEEE 802.3x IEEE 802.1x IEEE802.1q IEEE 802.1p IEEE 802.1d IEEE 802.1w IEEE 802.3ad IEEE802.3af IEEE802.3at	
Forwarding Modes	Store and forward	
Packet Buffer	4.1Mbit	
MAC Table	8K	
Switching Capacity	12Gbps	20Gbps
Packet Forwarding Rate	8.93Mpps	14.88Mpps
Jumbo Frame	10kB	
Power Supply		
Input Voltage	Power 1 (Main): 48~57V DC, Power 2 (Backup): 48~57V DC	
Power Consumption	Full loading without PoE ≤ 4W PoE power budget ≤ 120W	Full loading without PoE ≤ 4W PoE power budget ≤ 240W
Connector	Removable 5-pin terminal block	
Reverse polarity protection	Support	
Over-voltage protection	Support	
Over-current protection	Support	



Software Features		
Spanning Tree	IEEE 802.1D -Spanning Tree	
	IEEE 802.1w -Rapid Spanning Tree	
	IEEE 802.1s -Multiple Spanning Tree	
	BPDU Guard	
	STP Root Guard	
	Loop Detection	
VLAN	Management VLAN	
	Private VLAN	
	Voice VLAN	
	Surveillance-VLAN	
	Q-in-Q (Double Tag)	
	802.1v Protocol VLAN	
	MAC-Based VLAN	
Port	IEEE 802.3ad with LACP(Dynamic)	
	Static Trunk	
	EEE	
	Jumbo Frame	
	Error-Disable	
IGMP Snooping	IGMP Snooping v1/v2/v3	
	MLD Snooping v1/v2	
	MVR	
Loop	ERPS	
	Loopback Detection	
QoS Features	Hardware Queues	
	Class Of Service	Port Based
		802.1p
		CoS
		DSCP
		IP Precedence
		TCP/UDP (IPv4/IPv6)
	Rate Limiting	Ingress
		Egress
	Priority Queue Scheduling	WRR
		Strict Priority
		DSCP & CS
	IPv4 QoS (QCEs)	
IPv6 QoS (QCEs)		

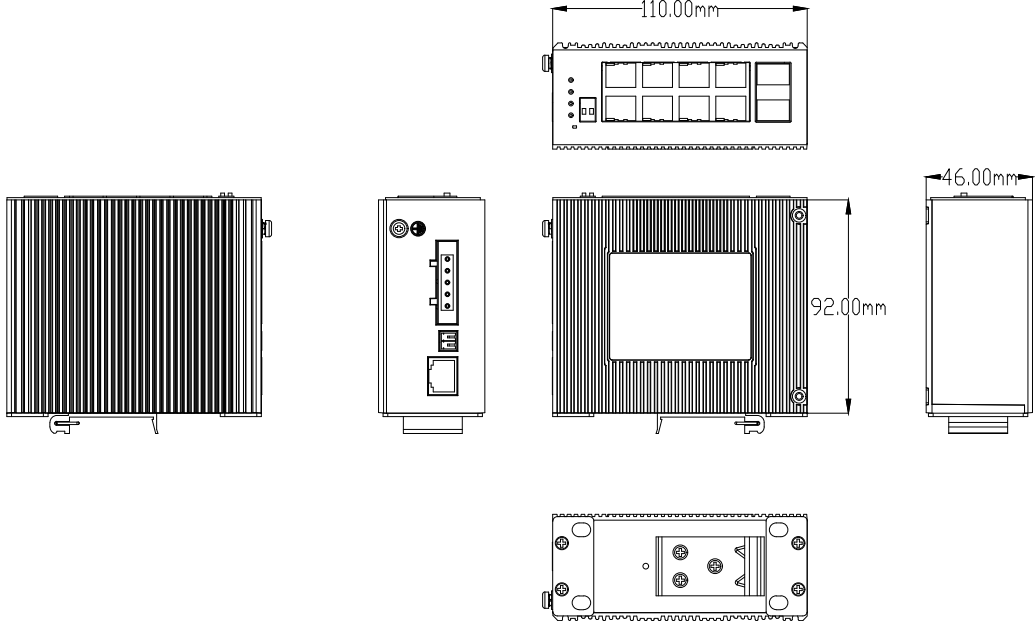
Security	Port Security	
	Port Isolation	
	IEEE802.1x AAA	
	ACLs	L2+/L3/L4
		IPv6 Support
		Management Access List
	Management ACL/Management ACE	
	IP Source Guard (IP-MAC-Port-VALN Binding)	
	IP Source Guard (IP-MAC-Port Binding)	
	Dynamic ARP Inspection	
	Storm Control	
	RADIUS/TACACS+	
	RADIUS Authentication (RFC2138)	
	DDoS Prevention	
	HTTPs and SSL (Secured Web)	
	SSH v1.5/v2.0 (Secured Telnet Session)	
DHCP Snooping		
DHCP Relay		
Management	SNMP (v1, v2c, v3)	
	RMON ( 1,2,3 & 9 groups)	
	Software Upgrade	
	Configuration Export/Import	
	DHCP	Client
		Option 82
		Option 66
		Option 67
	Event/Error Log	Syslog
	Management Access Filtering	Console
		SNMP
		HTTP/HTTPS
		Telnet
	Port Mirroring	
	LLDP (IEEE802.1AB)	
	LLDP-MED	
UDLD		
DNS Client		
Traceroute		
Ping		

Management	Cable Test
	DDMI
	NTP/ SNTP (RFC2030)
IPv6 Support	Dual IPv6/IPv4 stack
	IPv6 Web/SSL
	IPv6 SNTP (Simple Network Time Protocol)
	IPv6 Telnet / SSH
	IPv6 Ping/Traceroute
	IPv6 TFTP
	IPv6 RADIUS/TACACS+
	IPv6 SNMP
PoE Management	Port Config
	Alive Checking for PD
	PoE Delay
	PoE Schedule
ONVIF	ONVIF Deteciton
	ONVIF Server(NLM)

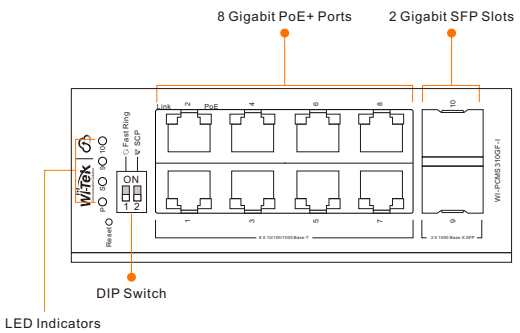
# Appearances and Dimensions

**WI-PCMS310GF-I**

Dimensions (mm)



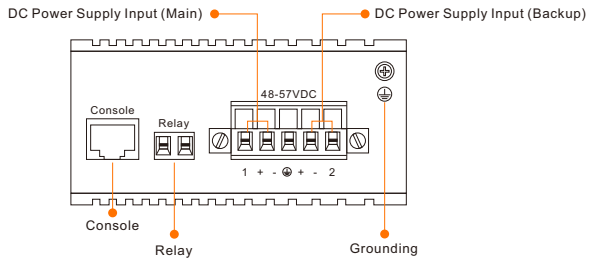
**Front Panel**



8 Gigabit PoE+ Ports    2 Gigabit SFP Slots

LED Indicators    DIP Switch

**Side Panel**

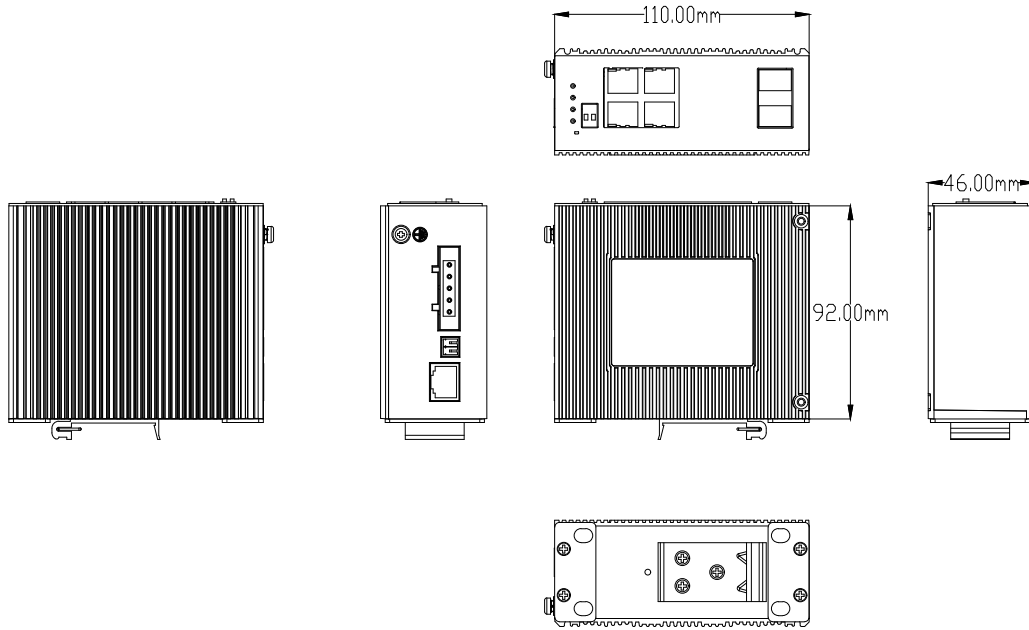


DC Power Supply Input (Main)    DC Power Supply Input (Backup)

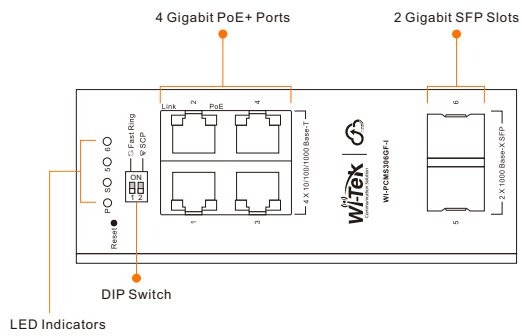
Console    Relay    Grounding

**WI-PCMS306GF-I**

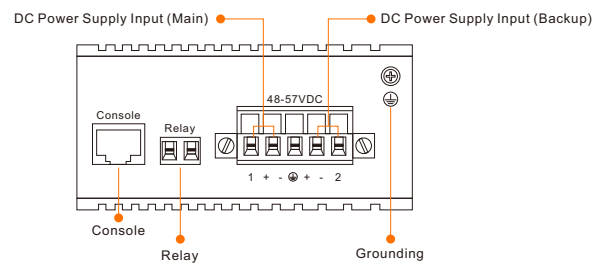
Dimensions (mm)



Front Panel



Side Panel





# Package Content

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

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



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Technical Support



Cloud Management



Company Website