### Datasheet

# Cloud L2 Industrial Switch

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





# 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, 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 stale 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**

# 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.

### Support Wi-Tek Cloud Management

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

#### **Smart DIP Mode**

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

#### Abundant L2 Managed Features

The switches support a complete lineup 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 Loop back Detection, Cable Diagnostics, and IGMP Snooping.

# Specifications







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Model	WI-PCMS306GF-I	WI-PCMS310GF-I	WI-PCMS321GF-BT-I
Hardware Specifications			
Interfaces			
Downlink Ports	4 x 100/1000Mbps RJ45 ports	8 x 100/1000Mbps RJ45 ports	8 x 100/1000Mbps RJ45 ports
Uplink Ports	2 × 1000Mbps SFP ports	2 × 1000Mbps SFP ports	4 × 1000Mbps SFP ports
Management Port	1 × 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	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, 185 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 802.3ab 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		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   IEEE 802.3af     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		



suppression configuration





Model	WI-PCMS306GF-I	WI-PCMS310GF-I	WI-PCMS321GF-BT-I
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: 187 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		







Model		WI-PCMS306GF-I WI-PCMS310GF-I WI-PCMS321GF-BT-I		
Reset		Hold for >5 sec.to restore factory default		
Fan Quantit	у	Fanless	Fanless	
Switch Dime	ensions	115*100*45 mm		145*109*62 mm
Package Dir	mensions	242*194*89 mm		234*190*86 mm
\\/-:		Net Weight: 0.48 kg Net Weight: 0.51 kg		Net Weight: 1.10 kg
Weight		Package Weight: 0.83 kg Package Weight: 0.86 kg Package Weight: 1.45kg		
Installation		Desktop, DIN-rail		
	Surge Immunity	IEC 61000-4-5 Common mode 6kV Differential mode 2kV		
Reliability	ESD Protection	IEC 61000-4-2 Contact discharge 6kV Air discharge 8kV		
Operating E	nvironment	-40°C~75°C, 5%~95% (Non-condensation)		
Storage Env	rironment	-40°C~85°C, 0%~95% (Non-condensation)		
Certification				
Certification	1	CE, FCC, RoHS, UKCA, RCM		

Signatures           Signatures           Signatures           Signatures           Signatures           Signatures           Signatures           Signatures           Signatures           Management VAM           Private VAM           Superliance-VAM           Gen-q (Double Tog)           Superliance-VAM           MAC-Based VAM           MAC-Based VAM (In LACR/Dynamic)           Static Trunk           Financy Efficient Ellipsined           Jumbo Frame           ISMP Stooping vt/v2/v3           ISMP Stooping vt/v2/v3           MRS           MRS           MRS           Close of Botocion           Close of Service           Close of Service           Close of Service           Close of Service           Ago In Service           Close of Service           Close of Service           MRS<				
EBER 802.1 km Anighte Spenning Tree	Software Features			
Spenning Tree   FIDU Cluerd	Spanning Tree	IEEE 802.1D- Spanning Tree		
PIPCU Cluard		IEEE 802.1w- Rapid Spanning Tree		
BEPCU Guard   STP Root Quard   1 cop Peteriton   1 cop Peteriton		IEEE 802.1s- Multiple Spanning Tree		
		BPDU Guard		
Management VLAN		STP Root Guard		
VLAN         Voice VLAN           VLAN         Surveillance-VLAN           Q-In-Q (Double Tag)         802.1v Protocol VLAN           MAC-Based VLAN         MAC-Based VLAN           Port         Energy Efficient Ethernet         Static Trunk           Energy Efficient Ethernet         Jumbo Frame           Frorr-Disable         Frorr-Disable           (GMP Snooping v1/v2/v3         MLD Snooping v1/v2 /v3           MVR         MVR           Loop         EFIPS           Loopback Detection         Loopback Detection           MCS Feetures         Hardware Queues           Port Based         802.1p           Cos         Cos		Loop Detection		
Voice VLAN           Surveillance-VLAN           Q-in-Q (Double Tag)           802.1v Protocol VLAN           MAC-Based VLAN           Static Trunk           Static Trunk           Energy Efficient Ethernet           Jumbo Frame           Error-Disable           IGMP Snooping v1/v2/v3           MVR           MVR           Loop           GPOIT Based           Book Detection           Port Based           802.1p           Cos		Management VLAN		
VLAN         Surveillance-VLAN           Q-in-Q (Double Tag)         802.1v Protocol VLAN           MAC-Based VLAN         MAC-Based VLAN           Port         EEE 802.3ad witch LACP(Dynamic)         Static Trunk           IP Static Trunk         Energy Efficient Ethernet         Jumbo Frame           IGMP Snooping         IGMP Snooping v1/v2/v3           IGMP Snooping v1/v2 w3         MLD Snooping v1/v2/v3           MVR         ERPS           Loop         ERPS           CoS Features         Hardware Queues           Port Based           802.1p           CoS		Private VLAN		
Q-in-Q (Double Teg)     802.1v Protocol VLAN     MAC-Based VLAN     EEE 802.3ad witch LACP(Dynamic)     Static Trunk     Energy Efficient Ethernet     Jumbo Frame     Error-Disable     Error-Disable     MID Snooping v1/v2/v3     MLD Snooping v1/v2     MVR     Loop     Loopback Detection     Hardware Queues     Port Based     802.1p     Cos     Co		Voice VLAN		
R02.1v Protocol VLAN   MAC-Based VLAN	VLAN	Surveillance-VLAN		
MAC-Based VLAN		Q-in-Q (Double Tag)		
Port   EEE 802.3ad witch LACP(Dynamic)		802.1v Protocol VLAN		
Port         Energy Efficient Ethernet           Jumbo Frame         Jumbo Frame           Error-Disable         Error-Disable           MLD Snooping v1/v2/v3         MLD Snooping v1/v2           MVR         MVR           Loop         ERPS           Loopback Detection         Loopback Detection           Port Based         802.1p           Cos         Cos		MAC-Based VLAN		
Port         Energy Efficient Ethernet           Jumbo Frame         Jumbo Frame           IGMP Snooping v1/v2/v3         IGMP Snooping v1/v2/v3           Loop         MLD Snooping v1/v2           MVR         ERPS           Loop back Detection         Fort Based           QoS Features         Port Based           GoS (Class of Service)         Port Based           GoS         Energy Efficient Ethernet           GoS         Fort Based           Box (CoS)         CoS		IEEE 802.3ad witch LACP(Dynamic)		
Jumbo Frame   Error-Disable		Static Trunk		
Error-Disable	Port	Energy Efficient Ethernet		
IGMP Snooping v1/v2/v3   MLD Snooping v1/v2   MVR   MVR		Jumbo Frame		
IGMP Snooping MLD Snooping v1/v2  MVR  ERPS  Loop Loopback Detection  Hardware Queues  Port Based  802.1p  Cos		Error-Disable		
MVR           ERPS           Loopback Detection           Hardware Queues           Port Based           802.1p           Cos		IGMP Snooping v1/v2/v3		
Loop  Loopback Detection  Hardware Queues  Port Based  802.1p  Cos	IGMP Snooping	MLD Snooping v1/v2		
Loopback Detection  Hardware Queues  Port Based 802.1p  Cos		MVR		
Loopback Detection  Hardware Queues  Port Based  802.1p  Cos	Loop			
QoS Features  Class of Service  Port Based  802.1p  CoS				
QoS Features Class of Service  802.1p  CoS		Hardware Queues		
Class of Service  CoS		Class of Service	Port Based	
CoS	QoS Features		802.1p	
DSCP			CoS	
			DSCP	

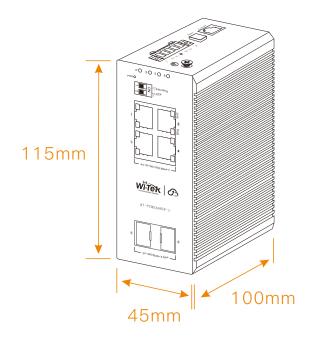
	Class of Service	IP Precedence	
	Class of Service	TCP/UDP (IPv4/IPv6)	
	Rate Limiting	Ingress	
	ridio Emiling	Egress	
Qos Features		WRR	
	Priority Queue Scheduling	Strict Priority	
		DSCP & CS	
	lpv4 QoS (QCEs)	lpv4 QoS (QCEs)	
	lpv6 QoS (QCEs)		
	Port Security		
	Port Isolation		
	IEEE802.1x AAA		
		L2+/L3/L4	
	ACLs	lpv6 Support	
		Management Access List	
	Management ACL/Management ACE		
	IP Source Guard (IP-MAC-Port-VLAN Binding)		
Security	IP Source Guard (IP-MAC-Port Binding)		
Gecurity	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		

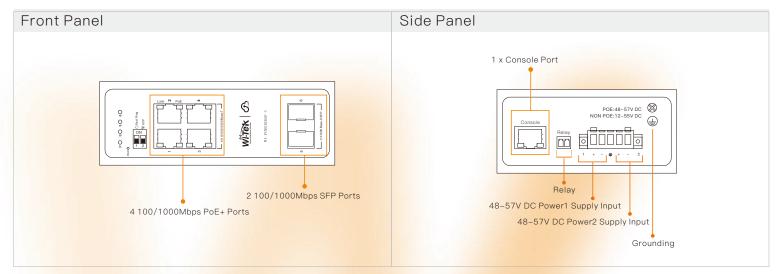
	SNMP (v1, v2c, v3)		
	RMON ( 1,2,3 & 9 groups)		
	Software Upgrade		
	Configuration Export/Import		
	DHCP	Client	
	DHCP	Option 82	
	Event/Error Log	Syslog	
		Console	
Management	Management Access Filtering	SNMP	
Managomone	Wanagement / Cooose / Interning	HTTP/HTTPS	
		Telnet	
	Port Mirroring		
	LLDP (IEEE802.1AB)		
	LLDP-MED		
	UDLD		
	DNS Client		
	Traceroute		
	Ping		
	Cable Test		
Management	DDMI		
	NTP/ SNTP (RFC2030)		
	Dual IPv6/IPv4 stack		
lpv6 Support	lpv6 Web/SSL		
	Ipv6 SNTP (Simple Network Time Protocol)		
	lpv6 Telnet / SSH		
	lpv6 Ping/Traceroute		
	lpv6 TFTP		
	lpv6 RADIUS/TACACS+		
	lpv6 SNMP		

# **Appearances and Dimensions**

# WI-PCMS306GF-I

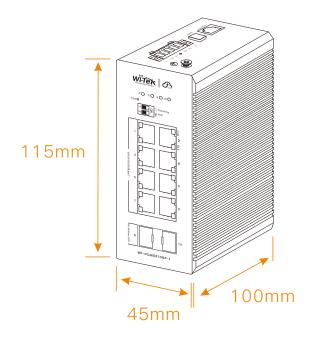
# Dimensions (mm)



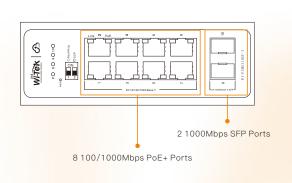


#### WI-PCMS310GF-I

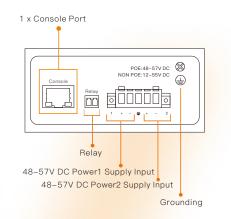
# Dimensions (mm)



# Front Panel

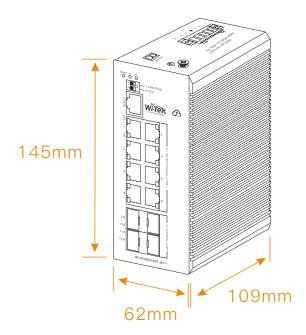


# Side Panel

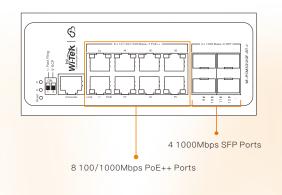


#### WI-PCMS321GF-BT-I

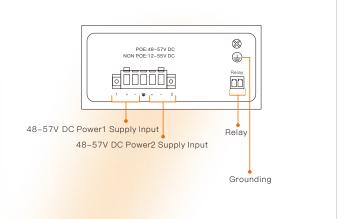
# Dimensions (mm)



# 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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Cloud Management



Company Website

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