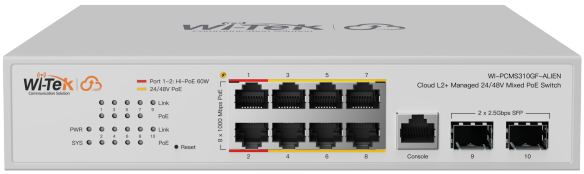
Datasheet

Cloud L2+ Managed 24/48V Mixed PoE Switch



WI-PCMS310GF-ALIEN

Overview

The WI-PCMS310GF-ALIEN provides 8 10/100/1000Mbps PoE ports with up to 60W output and 2 1000/2500Mbps SFP ports. It supports both IEEE 802.3af/at standard 48V devices and 24V passive PoE devices, eliminating the need for separate power injectors to simplify deployment and reduce costs , and enabling seamless mixed-environment deployments.

The switch also supports Layer 2 management functions, such as 802.1Q VLAN, QinQ, port mirroring, STP, RSTP, MSTP, IGMP Snooping, QoS, DHCP, Multicast, ACL, LLDP, 802.1X, DDM, PoE management, ERPS, IPv6 management, Web, SNMP, Telnet, TFTP, etc.

Features

Support 24V/48V PoE Output

Comply with the IEEE 802.3af /at standards, the power supply for port1-2 is up to 60W fully ensuring the power supply requirements for each port. All PoE ports are compatible with 24V Passive devices and standard-powered devices.

Cloud Management

Wi-Tek Cloud Switch supports not only web interface and CLI management but also Wi-Tek Cloud management. Users can view the monitoring network status, make remote configurations, and troubleshoot anywhere and anytime.

ONVIF-based IPC Detection and Automatic Topology Mapping

Effortlessly discover ONVIF IPCs and visualize their connections under the switch via the cloud platfor m,enabling intuitive network management and faster deployment.

Abundant L2+ Managed Features

The switch 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.

Specifications



Model	WI-PCMS310GF-ALIEN
Hardware Features	
Interfaces	
Downlink Ports	8*10/100/1000Mbps RJ45 Ports
Uplink Ports	2*1000/2500Mbps SFP Slots
Management Port	1*Console port
Performance	
Memory and Flash	128MB Memory 32MB Flash
PoE	
PoE Port	Port 1-8
PoE Standard	Port 1-2: Hi-PoE 60W or 24V Passive PoE Port 3-8: 802.3af/at or 24V Passive PoE
PoE Pin Assignment	Port 1-2: 1/2(+), 3/6(-) , 4/5(+), 7/8(-) Port 3-8: 4/5(+), 7/8(-)
PoE Power	60W max for port 1-2 30W max for port 3-8 100W Max. for PoE power budget(24V) 130W Max. for PoE power budget(48V)
Switch Property	
Standards and Protocols	IEEE802.3、 IEEE802.1x、 IEEE802.1ab、 IEEE802.1s、 IEEE802.3u、 IEEE802.1d、 IEEE802.3ab、 IEEE802.1w、 IEEE802.3z、 IEEE802.3ad、 IEEE802.3x、 IEEE802.3af、 IEEE802.1q、 IEEE802.3at IEEE802.1p、
Forwarding Mode	Store and Forward
Switching Capacity	20Gbps
Packet Forwarding Rate	14.88Mpps
MAC Address Table	8k
Packet Buffer Memory	8.4Mbit

Model		WI-PCMS310GF-ALIEN
Jumbo Frame		9216Byte
Power Supply		
Input Power		AC: 100-240V 50/60Hz DC: 48-55V
Power Consumption		Idle: ?W 100% traffic Rate with PoE: ?W Max
Physical Characteristics		
LED Indicators		**PWR:** On: The switch is powered on Off: The switch is powered off or power supply is abnormal **SYS:** Off: The system is being started or abnormal Blinking: The system is working normally **PoE:** Orange on: 48V PoE enabled Green on: 24V PoE enabled Off: PoE disabled **Link:** Green on: Port connected Blinking: Data transmission Off: Port disconnected
Reset		Hold for >5 sec. to restore factory default
Fan Quantity		1
Dimensions		220*150*44mm
Weight		kg
Installation		Wall-mounted, Desktop
Reliability	Surge Immunity	Common mode：6kV Differential mode：2kV
	ESD Protection	Contact discharge：6kV Air discharge：8kV
Operating Environment		-10~50℃, 10%-90% RH non-condensing
Storage Environment		-40~85 ℃, 5%-90% RH non-condensing
Certification		
Certification		CE, FCC, RoHS, UKCA, RCM

Model	WI-PCMS310GF-ALIEN
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

Model	WI-PCMS310GF-ALIEN
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/IPv6 IGMP 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
VLAN	VLAN Group
	Max. 4K VLAN Groups
	802.1Q tag VLAN
	MAC VLAN
	Protocol VLAN

Model	WI-PCMS310GF-ALIEN
VLAN	GVRP
	Voice VLAN
	Port-Based QinQ
	Tunnel TPID（0x8100，0x9100，0x9200，Protocol ID）
	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)
	QoS Remark
	ACL apply to Port/VLAN
	Time-based ACL

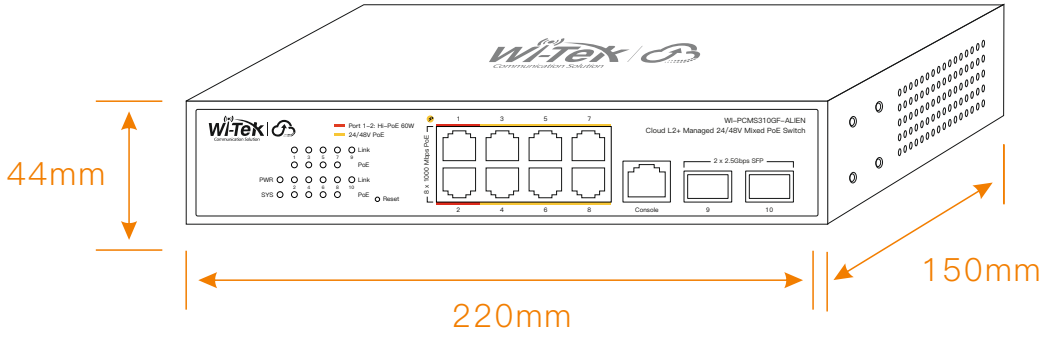
Model	WI-PCMS310GF-ALIEN
Access Control List	Ipv6 ACL
	Policy
	ICMP/TCP/UDP
	Mirroring
	Attached Direction(Ingress/Traffic-statistic)
	QoS Remark
	ACL apply to Port/VLAN
	Time-based ACL
Security	IP-MAC-Port Binding
	DHCP Snooping
	ARP Inspection
	Ipv4 secure-port
	DHCPv6 Snooping
	snooping remote-id
	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

Model	WI-PCMS310GF-ALIEN
Security	Guest VLAN
	Support RADIUS authentication and accountability
	AAA (including TACACS+)
	Port Isolation
	Secure web management through HTTPS with SSLv3/TLS 1.2
	Secure Command Line Interface (CLI) management with SSHv1/SSHv2
	IP/Port/MAC-based access control
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
	Ping6
	Tracert6
	Telnet (v6)
	IPv6 SNMP
	IPv6 SSH
	IPv6 SSL
	Http/Https

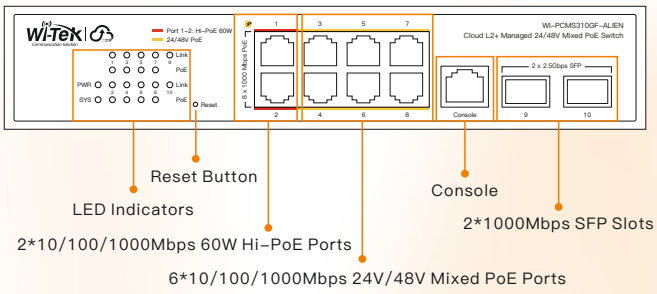
Model	WI-PCMS310GF-ALIEN
Advanced Features	802.3ah Ethernet Link OAM
	ERPS
	Cloud Management
	ONVIF(ONVIF Detection,ONVIF Server(NLM))
	Batch Firmware Upgrading
	Intelligent Network Monitoring Abnormal Event Warnings
	Automatic Device Discovery
	Support Remote Management
	Support Cloud VLAN Configuration
	Support Topology Display
	Support Cloud Control Port Configuration
Management Features	Web-based GUI
	Command Line Interface (CLI) through console port, telnet
	SNMPv1/v2c/v3
	Trap/Inform
	RMON (1, 2, 3, 9 groups)
	DHCP/BOOTP Client
	802.1ab LLDP/LLDP-MED
	CPU Monitoring
	Cable Diagnostics
	EEE
	Password Recovery
	SNTP
	System Log
System	Ping
	Traceroute
	Firmware Upgrade
	DDMI

WI-PCMS310GF-ALIEN

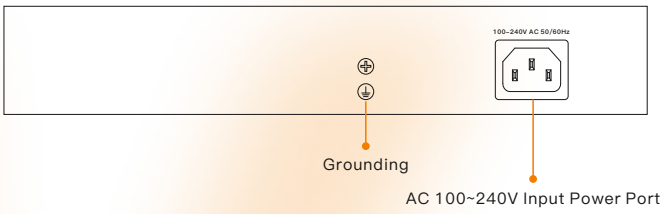
Dimensions (mm)



Front Panel



Rear Panel



Package Contents

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

Items	Quantity
Switch	1 pcs
Serial line	1 pcs
AC Power Cord	1 pcs
Rack Mount Kit	1 pcs
Quick Installation Guide	1 pcs

Wireless-Tek Technology Limited
Address:Building 3, Units 1801-1807, 1812, Huaqiang Era Plaza, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, China.
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

©2025 Wireless-tek Technology Limited. All Rights Reserved.
Version,V1.0, updated 2025.10.24.
The information in this document is subject to change without notice.
Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.