

# Alien Series 24/48V WISP PoE Switch

WI-PS310GF-Alien | WI-PMS310GF-Alien | WI-PMS310GF-Alien-I | WI-PMS328GF-Alien  
WI-PoE90X | WI-PoE61-24V | WI-POE60-24V

## Overview

The Alien PoE Switch Series was designed specifically for the WISP with a rugged chassis and extended operating temperature range. It features a simple yet powerful user interface providing the software features WISPs need a switch.

## Features

### 24V/48V Auto-detect

PoE Switch is suitable for 48V 802.3af/at and 24V PoE powered devices like many wireless AP, CPE, IP-cameras, VOIP phones, etc.

### Full Gigabit

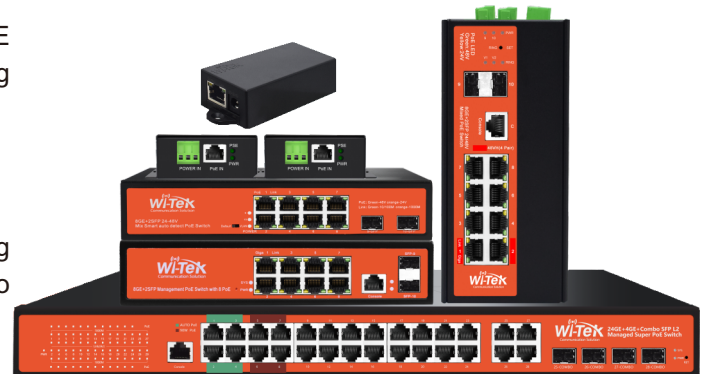
Build and expand your network with Wi-Tek full gigabit PoE switch, delivering robust performance switching for growing networks.

### Fiber Connectivity

The switch provides fiber connectivity options for your growing networks. All switches include two SFP ports, providing up to 1000Mbps uplink ports.

### Powerful Functionality

The L2 Managed PoE Switch uses an intelligent web page that provides basic switching features, PoE configuration per port, and a variety of advanced features.



# Specifications



HARDWARE FEATURES	WI-PMS310GF-Alien	WI-PMS310GF-Alien-I	WI-PMS328GF-Alien	WI-PS310GF-Alien
Hardware Version	V1	V2	V1	V1
L2 Managed	Yes	Yes	Yes	No
Interface	8 10/100/1000Mbps RJ45 Ports 2 1000Mbps SFP Slots 1 Console Port	8 10/100/1000Mbps RJ45 Ports 2 1000Mbps SFP Slots	24 10/100/1000Mbps RJ45 Ports 4 1000Mbps Combo SFP Slots 1 Console Port	8 10/100/1000Mbps RJ45 Ports 2 1000Mbps SFP Slots
PoE Port	Port 1- 8: 802.3 af/at and 24V Passive	Port 1-2: 48V 802.3bt 60W Port 3-8: 24V Passive or 48V 802.3af/at	Port 1-4: 24V Passive or 802.3 af/at Port 5-8: 802.3bt 90W Port 9-24: 802.3af/at	Port 1- 8: 802.3 af/at and 24V Passive
Network Media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) 100BASE-TX/1000Base-T: UTP category 5, 5e, 6 or above cable (maximum 100m) 1000BASE-X: MMF, SMF 1000Base-L X:62.5µm/50µm MM(2m~550m) or 10µm SMF(2m~5000m)			
Fan Quantity	Fanless		2 Fans	Fanless
Power Consumption	150W (max. with PoE device connected)	300W (max. with PoE device connected)	400W	150W (max. with PoE device connected)
External Power Supply	DC 48-55V 5A Max AC 110~240V 50/60HZ	DC1: 9-52V 10A Max DC2: 37-57V 8A Max DC3: 37-57V 8A Max	AC 110~240V 50/60HZ	AC 110~240V 50/60HZ DC 48-55V 5A Max
Exchange Capacity	20Gbps		56Gbps	20Gbps
Packet Forwarding Rate	14.9Mpps	18Mpps	41.7Mpps	14.9Mpps
Mac Address Table	8K	8K	16K	4K
Packet Buffer Memory	1.5Mb	4Mb	12Mb	1.5Mb
Jumbo Frame	10240 Bytes			
Protection Level	6kV Lightning protection 6kV ESD Contact discharge			
Transmission Method	Store-And-Forward			
Advanced Functions	Priority Function Mac Address Auto-Learning And Auto-Aging Store and forward IEEE 802.3x flow control for Full-duplex Mode Backpressure for Half-duplex Mode		Mac Address Auto-Learning And Auto-Aging Store and forward IEEE 802.3x flow control for Full-duplex Mode Backpressure for Half-duplex Mode	
OTHERS				
Certification	CE, FCC, RoHS			
Package Dimension	270×256×65 mm	234×168×79 mm	510×375×90 mm	270×256×65 mm
Switch Dimension	210×140×45 mm	156×115×65 mm	440×29×45 mm	205×140×45 mm
Gross Weight	1.37kg	1.43kg	4.11kg	1.64kg
Net Weight	0.91kg	1.28kg	3.36kg	1.05kg
Package Contents	1 × PoE Switch 1 × Power Cord 1 × Quick Installation Guide	1 × PoE Switch 1 × Temperature Sensor 1 × Screw Driver 1 × Quick Installation Guide	1 × PoE Switch 1 × Power Cord 1 × Rack-Mount Kit 1 × Rubber Feet 1 × Quick Installation Guide	1 × PoE Switch 1 × Power Cord 1 × Quick Installation Guide
Working Environment	Working Temperature: -10°C~55°C Storage Temperature: -40°C~70°C Working Humidity: 10%~90% RH non-condensing Storage Humidity: 5%~90% RH non-condensing	Working Temperature: -40°C~80°C Storage Temperature: -40°C~90°C Working Humidity: 10%~90% RH non-condensing Storage Humidity: 5%~95% RH non-condensing	Working Temperature: -10°C~55°C Storage Temperature: -40°C~70°C Working Humidity: 10%~90% RH non-condensing Storage Humidity: 5%~90% RH non-condensing	Working Temperature: -10°C~55°C Storage Temperature: -40°C~70°C Working Humidity: 10%~90% RH non-condensing Storage Humidity: 5%~90% RH non-condensing



HARDWARE FEATU RES	WI-POE90X	WI-POE61-24V	WI-POE60-24V
Hardware Version	V1	V1	V1
L2 Managed	No		
Interface	2 100/1000Mbps RJ45 Ports		
PoE Port	PoE IN: Passive 24V PoE OUT: 802.3af/at 48V	PoE IN: 802.3af/at 48-52V PoE OUT: Passive 24V	PoE IN: 802.3af/at 48-52V PoE OUT: Passive 24V
Network Media	10BASE-T: UTP category 3, 4, 5 cable (Max 100m)EIA/TIA-568 100Ω STP (Max 100m) 100BASE-TX: UTP category 5, 5e cable (Max 100m)EIA/TIA-568 100Ω STP (Max 100m) 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100m)		
Fan Quantity	Fanless		
Power Consumption	30W	24W	30W
External Power Supply	DC IN 12-57V PoE IN 24V	DC IN 36-60V PoE IN 48V	DC IN 37-57V
Exchange Capacity	2Gbps		
Packet Forwarding Rate	14.9Mpps		
Mac Address Table	2K		
Packet Buffer Memory	1Mb		
Jumbo Frame	10240 Bytes		
Protection Level	4kV Lightning protection 4kV ESD Contact discharge		
Transmission Method	Store-And-Forward		
Advanced Functions	Mac Address Auto-Learning And Auto-Aging Store and forward IEEE 802.3x flow control for Full-duplex Mode Backpressure for Half-duplex Mode		
OTHERS			
Certification	CE, FCC, RoHS		
Package Dimension	125×97×40 mm	125×97×40 mm	116×44×29 mm
Switch Dimension	85×87×30 mm	85×87×30 mm	112×40×25mm
Gross Weight	0.19kg	0.19kg	0.03kg
Net Weight	0.15kg	0.15kg	0.025kg
Package Contents	1 × PoE Converter		1 × PoE Converter
Working Environment	Operating Temperature: -10°C ~ 70°C		Working Temperature: -10°C ~ 55°C Storage Temperature: -40°C ~ 70°C Working Humidity: 10% ~ 90% RH non-condensing Storage Humidity: 5% ~ 90% RH non-condensing

SOFTWARE FEATURES	WI-PMS310GF-Alien	WI-PMS310GF-Alien-I	WI-PMS328GF-Alien
Advanced Functions	Support 802.1p CoS/DSCP priority		
	Support 4 priority queues		
	Queue scheduling: SP, WRR, SP+WRR		
	Port/Flow- based Rate Limiting		
L2 Features	IGMP Snooping V1/V2/V3		
	802.3ad LACP (Up to 8 aggregation groups, containing 8 ports per group)		
	Spanning Tree STP/RSTP/MSTP		
	Port isolation		
	BPDU filtering/guard		
	TC/Root protect		
	Loop back detection		
	802.3x Flow Control		
	VLAN	Supports up to 4K VLANs simultaneously (out of 4K VLAN IDs)	
Port/ MAC/Protocol-based VLAN			
Management VLAN configuration			
Access Control List	L2~L4 package filtering based on source and destination MAC address, IP address, TCP/UDP ports, 802.1p, DSCP, protocol and VLAN ID		
	Time Range Based		
Security	IP-MAC-Port-VID Binding		
	IEEE 802.1X Port/MAC Based authentication, Radius, Guest VLAN		
	DoS Defence		
	Dynamic ARP inspection (DAI)		
	SSH v1/v2		
	SSL v2/v3/TLSv1		
	Port Security		
	Broadcast/Multicast/Unknown-unicast Storm Control		
Management	Web-based GUI and CLI management		
	SNMP v1/v2c/v3, compatible with public MIBs DHCP/BOOTP Client, DHCP Snooping, DHCP Option82		
	CPU Monitoring		
	Port Mirroring		
	Time Setting: SNTP		
	Integrated NDP/NTDP feature		
	Firmware Upgrade: TFTP & Web		
	System Diagnose: VCT		
	SYSLOG & Public MIBS		



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Technical Support



Cloud Management



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