

## POE-SWR612GM-SOLAR

Industrial 12 Ports Full Gigabit L2+ Remotely Managed Solar PoE Switch



### Outstanding Features

- **L2+ REMOTE CLOUD MANAGED PoE SWITCH:** Supports L2+ management functions like VLAN, QoS, ACL, Static Routing and Link Aggregation, as well as automatic ONVIF cameras discovery. Device management through WEB GUI, Telnet, SSH, CLI, SNMP, and MQTT Cloud (RemoteMonit Cloud)
- **DC8~DC57V POE VOLTAGE BOOSTER:** Unlike traditional PoE Switch that requires DC 48V input from an AC power adapter, this Solar PoE Switch supports DC 8V ~ 57V input directly from solar power system or battery and provide standard IEEE802.3af/at PoE output. It is safer and more efficient in energy use.
- **12 FULL GIGABIT PORTS:** Provides 4\*30W and 4\*45W PoE Ports, 2\* Gigabit Uplink Port and 2\*Gigabit SFP ports; All ports 10/100/1000Mbps self-adaptive full duplex and Backpressure half-duplex flow control. Total POE budget 240W@48V, or 180W@24V, or 70W@12V.
- **ERPS RING:** High reliability with Ethernet Ring network, and higher bandwidth with Static Link Aggregation and LACP
- **REDUNDANT POWER SUPPLY:** Support 2 channel DC12V-48V redundant power inputs and DIP Switch for PoE System Reset, ensure high reliability networking system.
- **INDUSTRIAL DESIGN:** IP40 Metal shell & fanless design. Support DIN-rail or wall mounted installation. Wide working temperature -40°F to +167°F (-40°C to 75°C), 4KV surge immunity and 6KV ESD protection.
- Can be powered with any DC12V-48V power source. Model we offer for separate purchase is NDR-240-48 with POE budget of 240w or PWR-48V25A with 120w POE budget instead of 240w.

# Specification

## Hardware Specification

POE-SWR612GM-SOLAR	
Standard	IEEE802.3, IEEE802.3a, IEEE802.3ab, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.1q, IEEE802.1p, IEEE802.1x, IEEE802.1s, IEEE802.1d, IEEE802.3w, IEEE802.3ad, IEEE802.3af, IEEE802.3at
Interface	10*10/100/1000Mbps RJ45 Ports 2*1000Mbps SFP Slots 1*Console Port
Network Media	10BASE-T: UTP category 3, 4, 5 cable (≤100m) 100BASE-TX: UTP category 5, 5e cable (≤100m) 1000BASE-T: UTP category 5e, 6 cable (≤100m) 1000BASE-X:MMF, SMF
Indicator	PWR1(Green), PWR2(Green), STA(Green), LNK/ACT(Green/Yellow), PoE(Green)
MAC Address Table	8K, Auto-learning, Auto-update
Jumbo Frame	10000Bytes
Packet Buffer	4.1Mbit
Transfer Mode	Store-and-Forward
Packet Forward Speed	17.86Mpps
Switching Capacity	24Gbps
Dimensions (W*H*D)	1.97 × 6.73 × 4.72 in (50 × 171 × 120 mm)
PoE Power Budget	240W(Power adapter is not included)
PoE Port	Port 1 to 8
PoE Supply Mode	Mode A:1/2 (+), 3/6 (-)
Input Power Supply	Redundant power supply: DC 8-57V
Operating Temperature	-40°F to 167°F (-40°C to 75°C)
Storage Temperature	-40°F to 176°F (-40°C to 80°C)
Operating Humidity	5% ~ 95% non-condensing
Storage Humidity	0% ~ 95% non-condensing
Surge Protection	Differential mode ±2KV, Common mode ±4KV
Electrostatic Standard	Contact ±6KV, Air ±8KV
MTBF	>50000 hours

## Software Specification

L3 Features	
DHCP at Layer3	DHCP/DHCPv6 Server DHCP Client DHCP/DHCPv6 Relay DHCP/DHCPv6 Snooping
Route	IPV4/IPV6 Static Routing Route Aggregation
Spanning Tree Protocol	STP/RSTP/MSTP MSTP 64 instance BPDU Guard/Root Guard/BPDU Tunnel
Port Grouping/Link Aggregation	IEEE 802.3ad Link Aggregation Control Protocol Static Link Aggregation
L2 Features	
VLAN	Up to 4,093 VLANs Simultaneously 802.1Q tag-based VLAN Port-based VLAN MAC-based VLAN Protocol-based VLAN IP subnet-based VLAN Voice VLAN Private VLAN Guest VLAN QinQ/Selective-QinQ/Flexible QinQ GVRP/GMRP
DHCP at Layer2	Work with DHCP Option 82
IGMP	IGMP Snooping V1/V2/V3 IGMP Proxy
LLDP	IEEE 802.1ab LLDP-MED
Network Loopback Detection	Loopback Detection independent of STP ERPS

## Software Specification (Continued)

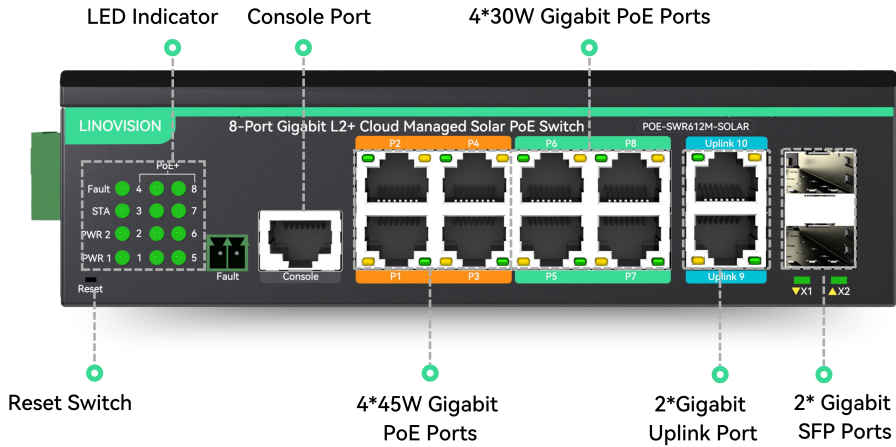
PoE Management	PoE On/Off Control PoE Budget Config PD Alive Detection Time Schedule PoE
<b>QOS</b>	
Priority Levels	8 Hardware queues
Scheduling	SP/WRR/WDRR Queue Scheduling Algorithm
Class of Services	Based on Port
	Based on IEEE 802.1p VLAN Priority
	IPv4/IPv6 IP precedence IPv4/IPv6 DSCP precedence
<b>Security</b>	
IEEE 802.1X	Port Based Authentication MAC Based Authentication EAPoR
BPDU	BPDU Guard Root Guard BPDU Tunnel
ARP	Static ARP ARP Scanning Prevention ARP Spoofing Prevention ARP Guard Gratuitous ARP Dynamic ARP Inspection MAC-based VLAN
ACL	IP-based ACL MAC-based ACL Time-based ACL VLAN-based ACL User defined ACL
RADIUS/TACACS+	Standard Protocol
Storm Control	defend Broadcast, Multicast & Unknown unicast
DoS Prevention	Deny DoS Attack
SSL	OpenSSL 1.1.0
<b>Management</b>	
Web GUI	Easy Browser-based Device Configuration, HTTP/HTTPS, SSL/TLS
SNMP	SNMP V1/V2c/V3 SNMP Trap
CLOUD Management	LINOVISION RemoteMonit Platform or 3rd party Cloud platforms
Command Line	Console/Telnet/SSH
File Management	HTTP/FTP/TFTP

## LED Indicator

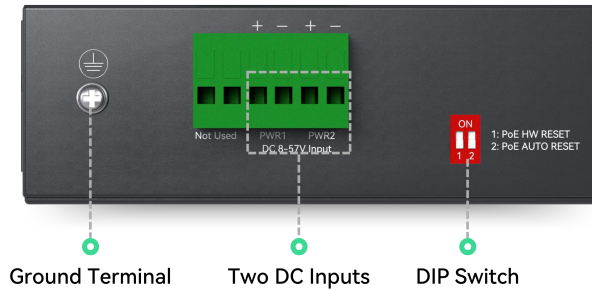
LED	Color	Function
P1	Green	Off: The switch is not powered by P1 power supply. Light: The switch is powered by P1 power supply.
P2	Green	Off: The switch is not powered by P2 power supply. Light: The switch is powered by P2 power supply.
STA	Green	Blinking: The system is working properly. Light: the system is starting or the system is running abnormally.
Fault	Green	Off: No alarm signal output. Light: There is an alarm signal output.
LNK/ACT	Green/Yellow	Off: No connected device. Light: Connect to a network device. Blinking: Data is being transferred.
PoE	Green	Off: The port does not supply power to the opposing device. Light: there are electric equipment connected to it, and normal power supply.

## Interface

Front View



Left View



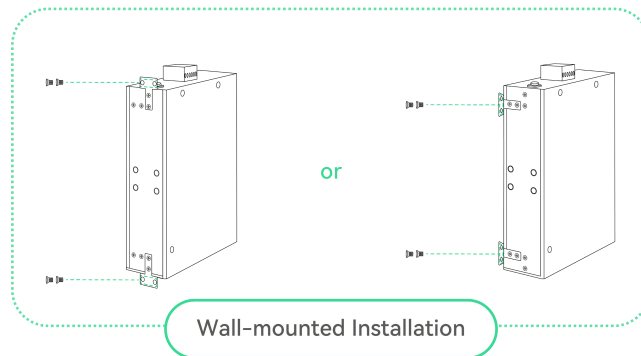
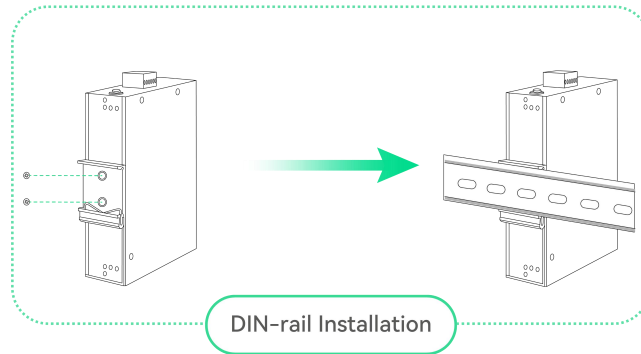
## Dimension



Weight: 2.22lb(1005g)

Note: Technical specifications may subject to change without prior notice.

## Installation



## Package included



POE-SWR612GM-SOLAR



Wall Mounting Accessory



DIN-Rail Mounting Accessory



Connecting line



User Manual