

LINOVISION

8-Port Solar PoE Switch Built-in 20A
Solar Charge Controller
POE-SWMR708G4BTC20-Solar
Quick Guide (V1.0/2023-3-20)



Quick Guide

Package Contents



POE-SWMR708G4BTC20-Solar



Terminal



DIN-Rail



Wall Mounting Pack

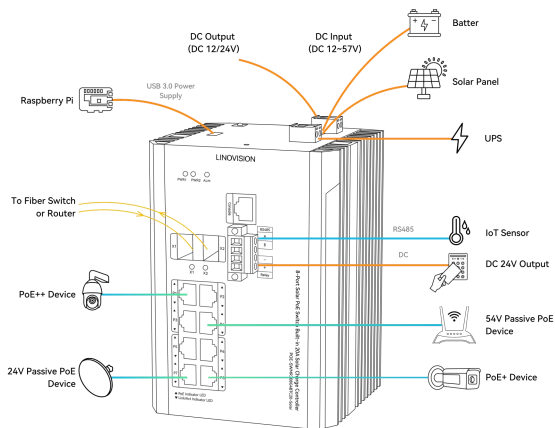


MC4-XT60 Adapter Cable



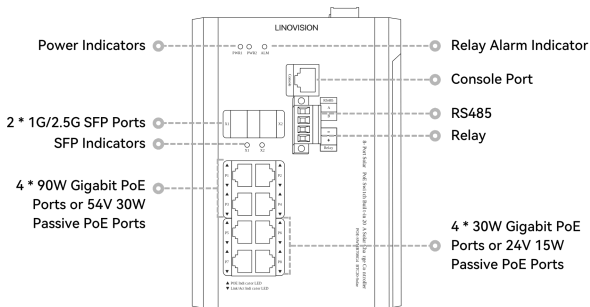
Quick Guide

Connection Diagram

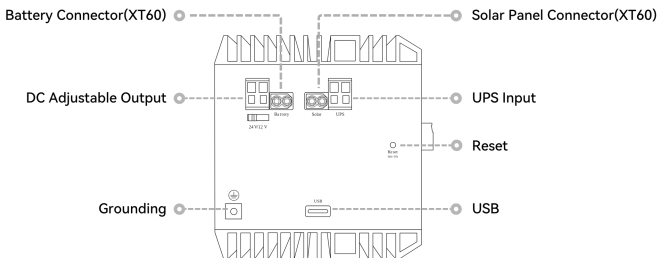


Interface

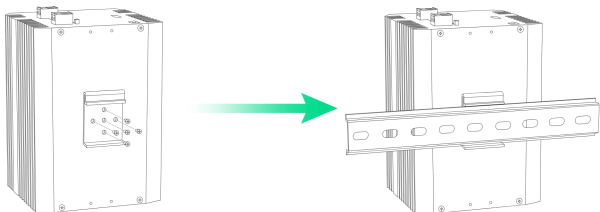
Front View



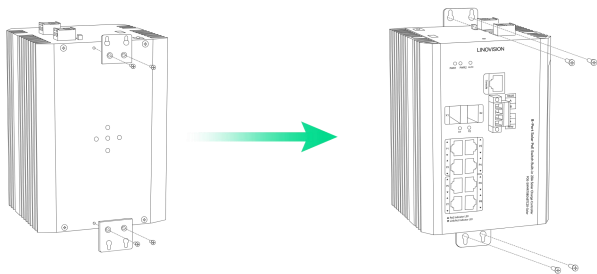
Side View



Installation



DIN-rail Installation



Wall-mounted Installation

WEB Login

Web Login Steps

Step 1

Ensure the switch is powered on and operating normally. Connect the PC to the switch RJ45 port using an Ethernet cable.

Step 2

Manually set the PC IP address to 192.168.1.X

- X range: 2–254 (excluding 200)
- Subnet mask: 255.255.255.0

Step 3

Open a web browser on the PC and enter `http://192.168.1.200` in the address bar, then press Enter.

Step 4

Enter the default login credentials:

- Username: admin
- Password: admin

Click Login to continue.

Step 5

After successfully logging in, the switch web management interface is displayed. Configuration can now be performed.

Specifications

Hardware	
Dimensions (W*D*H)	95.6*110*163 mm (3.70*4.30*6.40 in)
Weight	1.64kg (3.62lb)
Installation	DIN-rail/Desktop/Wall mounted
Material	Metal
Interface	
Ethernet Port	8 × 10/100/1000BASE-T PoE RJ-45 (Auto MDI/MDI-X)
SFP Ports	2 × 2.5 GBASE-X SFP
Management Ports	1 × RJ-45 Console
Alarm	1 × Relay, Max. Input 12V 0.6A
Serial Port	1 × RS-485
USB Port	USB 3.0, For Powering USB Devices
DC Output	24V DC, Max. 0.25A
Power	
Power Input	Power 1 (Main): 12 to 57V DC Power 2 (Redundant): 12 to 57V DC
Total Power Budget	240W @ 48V DC Input 120W @ 24V DC Input 60W @ 12V DC Input
Power Consumption	< 11W
LED Indicator	
PWR1, PWR2	Red: Power On
ALM	Red: Alarm Condition
Port 1-8	Green: Link/Active, Orange: PoE On
X1, X2	Green: SFP Link/Active
PoE	
PoE Standard	IEEE 802.3 af/at/bt, Passvie PoE
PoE Ports	Port 1-4: Configurable 802.3bt 90W or 54V 30W Passive PoE Port 5-8: Configurable 802.3af/at 30W or 24V 15W Passive PoE
Pin Assignment	IEEE 802.3 bt: 4-Pair, 1/2/7/8(-)/3/6/4/5(+) IEEE 802.3 at: Mode A, 1/2(+)/3/6(-) Passive PoE: Power pairs 4/5(+)/7/8(-)

Specifications

Switching Feature	
Jumbo Frame Support	9KB
Switching Capacity	28 Gbps / non-blocking
Packet Forwarding Rate	19.344 Mpps
Forwarding Mode	Store and Forward
Memory	165MB
MAC Table	16K MAC, self-learning
Port Buffer	2MB
L2+ Function	
Management Methods	WEB, CLI, TELNET, SSH, SNMP
VLAN	Supports up to 4094 active VLANs simultaneously (out of 4096 VLAN IDs) 802.1Q tag-based VLAN
Port Management	PoE enable/disable PoE Mode control Total PoE Power budget control PoE Port priority PoE port power limitation PD alive check PoE scheduling
STP	Standard Spanning Tree (STP) 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s TC-BPDU Guard BPDU Guard BPDU Filter
Ring Network Protocol	ERPS (Ethernet Ring Protection Switching) <20ms G.8032 ERPS Ring
Link Aggregation	Manual Aggregation LACP Dynamic Convergence
IGMP v1/v2 Snooping	Supports 256 multicast groups
MAC Management	Add/Delete MAC Address learning limit Dynamic Aging Time Setting
QoS	802.1p(COS) DSCP Classification Supports SP/WRR Scheduling Strategy

Specifications

Other Functions	LLDP Basic Logging SNMP Trap Device Reset Configuration save/restore NTP time setting Upgrade Management
Environment	
Surge Protection	IEC61000-4-5, Common $\pm 6kV$
ESD Protection	IEC61000-4-2, Level 3: Contact $\pm 6kV$, Air $\pm 8kV$
Operating Temperature	$-40^{\circ}C - 75^{\circ}C (-40^{\circ}F - 167^{\circ}F)$
Storage Temperature	$-40^{\circ}C - 85^{\circ}C (-40^{\circ}F - 185^{\circ}F)$
Operating Humidity	5%-95%, non-condensing
Storage Humidity	5%-95%, non-condensing

Solar Charge Controller

Charging	
Charge Mode	MPPT (Maximum Power Point Tracking)
Battery Type	Lead Acid, Gel, AGM, Lithium, LiFePO4 Lithium, etc.
Fuse protection	30A Fuse
Max PV Open Circuit Voltage	80V
Current	20A
Discharging	
Discharge Mode	Manually
Load Type	12/24V Manually
Output Voltage	Battery Voltage
Output Current	10A
Remote Management	
RS485 Output	Yes
Cloud Management	YES (Comes with 1 year free subscription of Linovision RemoteMonit.com cloud, also supports 3rd party cloud integration)

General

Typical Efficiency

>95%

Self-Consumption

<0.2W