

POE-SWMR708G4BTC20-Solar

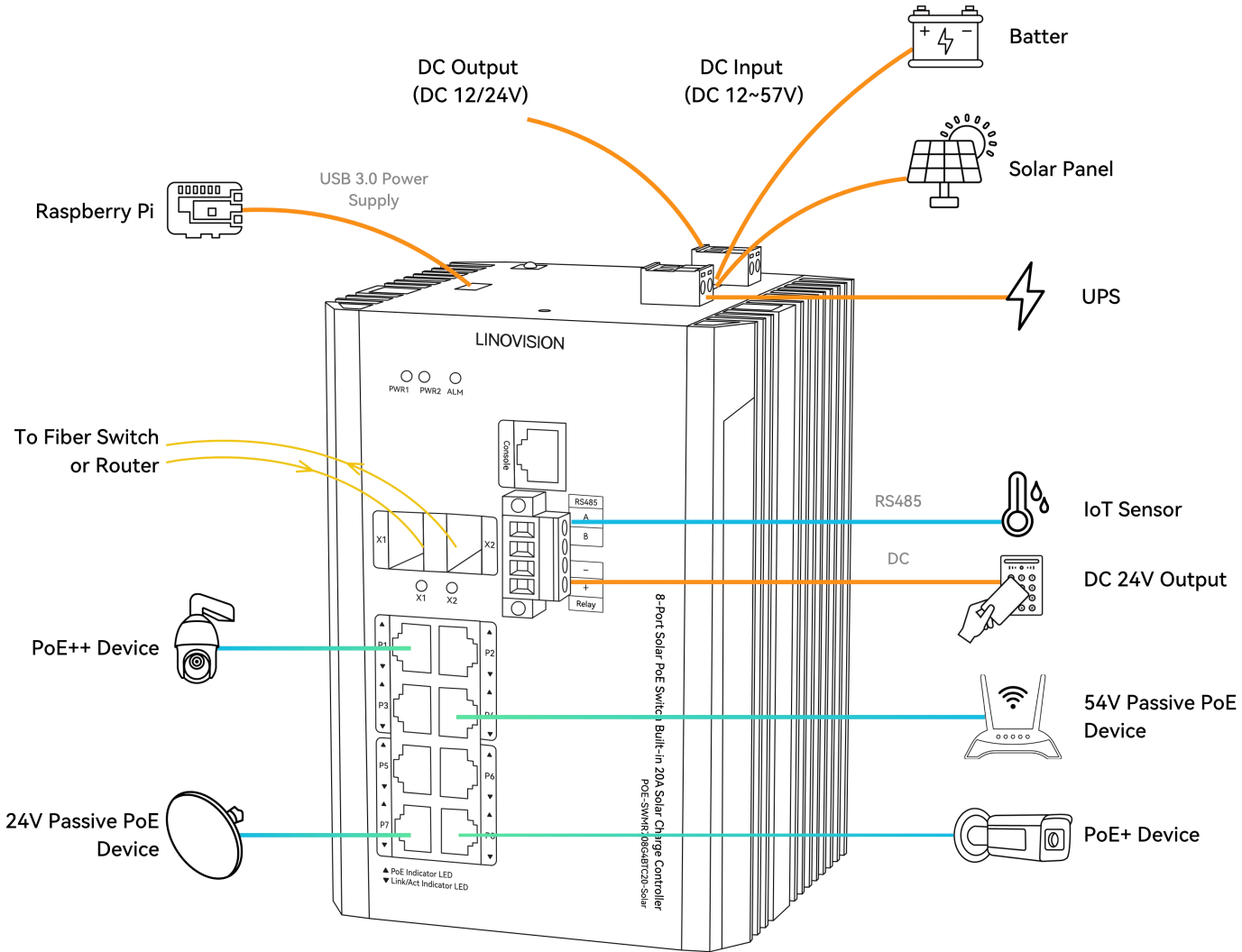
8-Port Solar PoE Switch Built-in 20A Solar Charge Controller



Outstanding Features

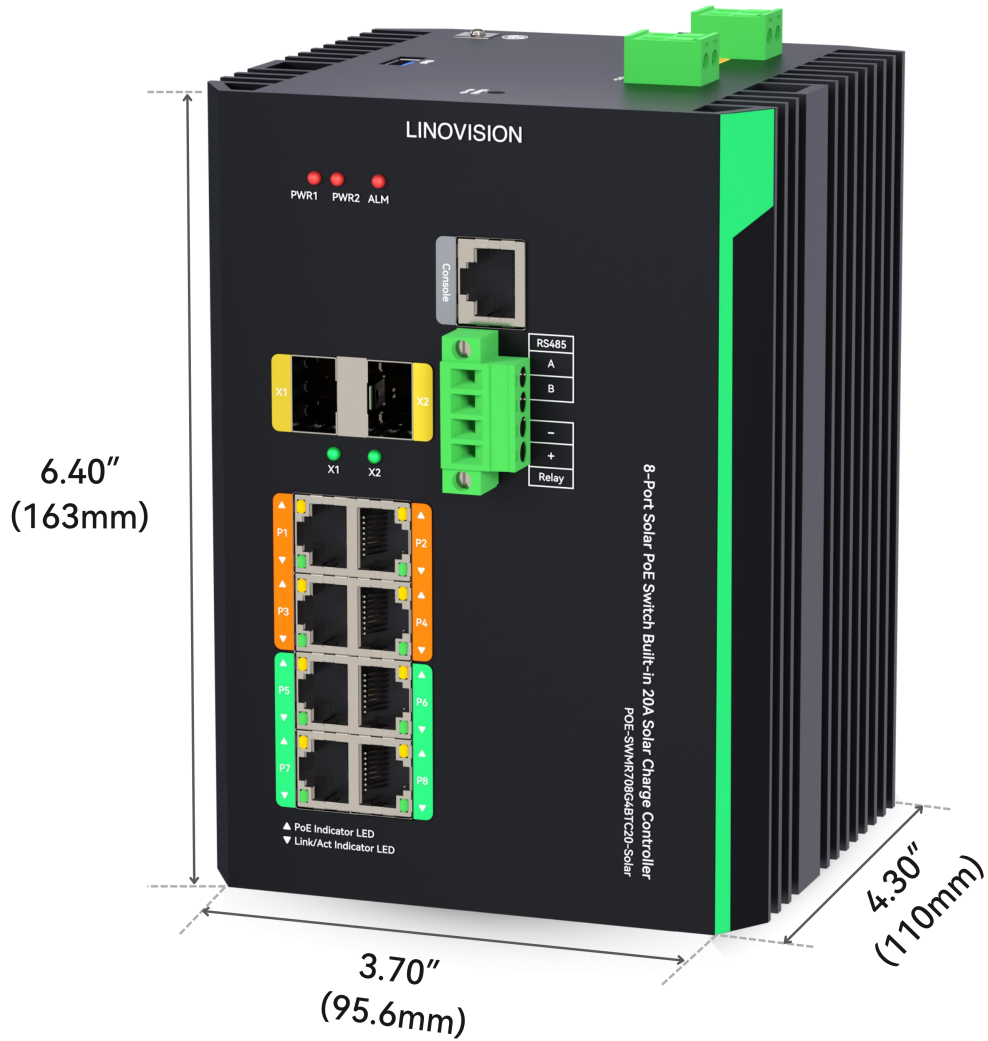
- **LAYER 2 MANAGED POE SWITCH:** 8×GE RJ45 + 2×1G/2.5G SFP; VLAN, QoS, LAG, PoE mgmt, per-port control; Web/CLI/SNMP.
- **99% Efficient MPPT Controller:** Built-in MPPT for PV + battery; 99% tracking, 98% conversion.
- **DC12~57V WIDE VOLTAGE INPUT:** Dual DC 12~57V inputs; for solar, vehicle, off-grid (no AC).
- **90W BT PoE: IEEE 802.3af/at;** ports 1~4: bt 90W / Passive 54V (30W), ports 5~8: at 30W / Passive 24V (15W); budget 240W@57V / 120W@24V / 60W@12V.
- **Easy Cabling:** XT60 (battery/PV), UPS DC input; RS485 for IoT sensors.
- **Passive 54V/24V PoE Output and 24V DC Output:** Per-port switch (Passive/Standard) with monitoring; 12V/24V DC for non-PoE devices.
- **PoE Watchdog and P-PoE:** Auto reboot frozen PD; uninterrupted PoE during reboot.
- **Marvell Chipset & High Security:** High-performance + 4-stage protection (charge/discharge, PV, current, reverse).
- **Fanless Industrial Design:** Silent; 6KV surge, 8KV ESD; -40°C ~ +75°C (-40°F ~ +167°F).

Connection Diagram

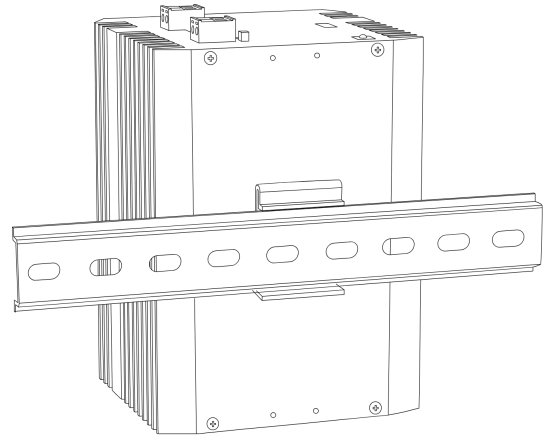
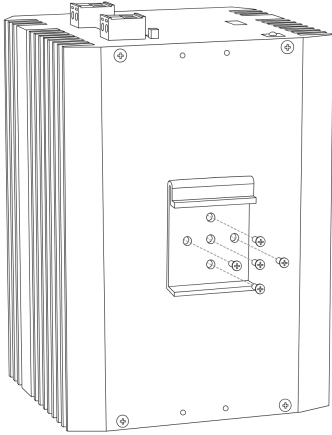


**Disclaimer: Technical specifications may subject to change without prior notice*

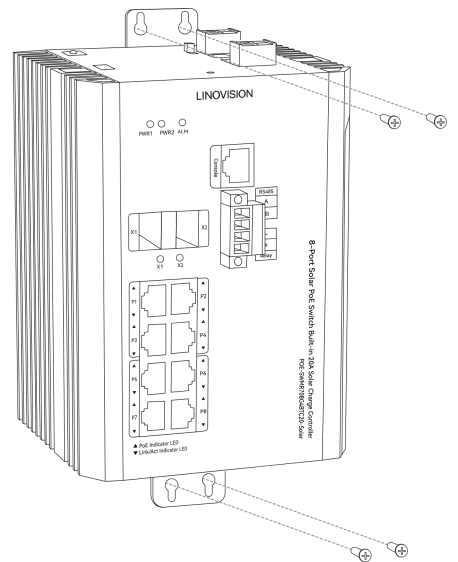
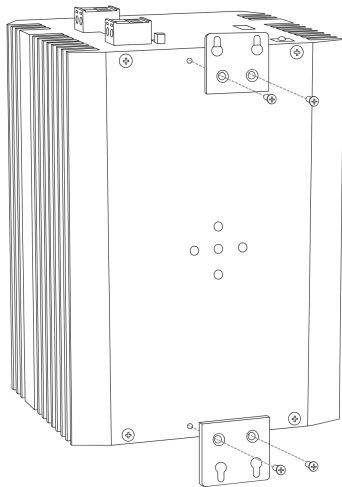
Dimension



Installation



DIN-rail Installation

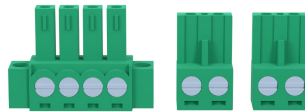


Wall-mounted Installation

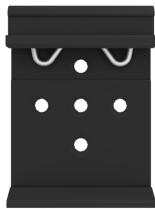
Package



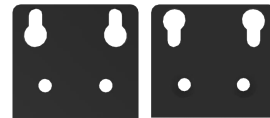
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Terminal



DIN-Rail



Wall Mounting Pack



MC4-XT60 Adapter Cable



Quick Guide

Specification

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

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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(-)
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

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