- \*\* Thank you for selecting the RS485-1M2S extension module. Please read this manual carefully before using the product.
- ※ Do not install this product in humid, salt spray, corrosion, greasy, flammable, explosive, dust accumulative, or other severe environments.

# RS485-1M2S Extension Module

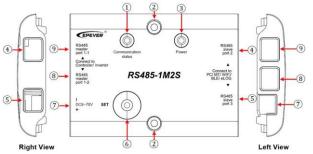
## 1 Overview

The RS485-1M2S is an optional accessory that can extend the RS485 communication port of the EPEVER solar controller, inverter, and inverter/charger. This modular adopting standard Modbus protocol helps users simultaneously monitor multiple devices' working status and program parameters.

# Features:

- Data interaction between the solar controller, inverter, inverter/charger, and monitoring devices
- Standard Modbus communication protocol
- One key to set the communication baud rate 9600/115200
- · LED indicating working status

#### 2 Appearance



1 Communication status Indicator

Green ON solid -- RS485-1M2S standby Green flashing -- RS485-1M2S communicating

Red flashing -- RS485-1M2S baud rate setting

- ② Mounting Hole 2 x Φ4.8mm
- ③ Power Indicator

Green ON solid --Power supply normal

- RS485 slave port 2 (RJ45)
- (5) RS485 slave port 3 (RJ45)

Port@and⑤are independent, which connect monitoring devices such as remote meter, WIFI module, Bluetooth module, or PC software etc.

#### 6 Set buttor

Long press the **Set** button to set the communication baud rate, which must be consistent with the communication baud rate of the connected device.

9600 - Red communication status indicator flashes once

115200 - Red communication status indicator flashes twice

# ② Auxiliary port for external power (5.08-2P)

DC power range: DC 8~70V

DC power source: Battery

Function: When the monitoring device's power consumption is high, an external battery shall be used to power the RS485-1M2S.

Detail scenarios are as follows (Note: The eLog is only compatible with the controller).

Scenario	Device (master port)	Device (slave port)	External power
1	Only controller, only inverter	MT75+WIFI, BlueTooth+WIFI, eLog+WIFI	Yes
2	Controller + inverter	MT75+WIFI, BlueTooth+WIFI, eLog+WIFI	No
3	Only controller, only inverter, controller + inverter	MT75, BlueTooth, eLog, WIFI	No

# Tel: +86-752-3889706 **8 RS485 master port 1-2 (RJ45)**

#### 9 RS485 master port 1-1 (RJ45)

Port®and@are connected in parallel, which can extend the RS485 communication port after connecting the solar controller, inverter, or inverter/charger.

## 3 RJ45 Pin definition

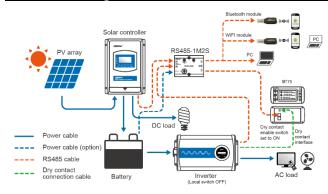


78	Pin No.	Definition
	1/2	5VDC
Ш	3/4	RS485-B
	5/6	RS485-A
	7/8	GND

# 4 Accessories

Included Accessories	RS485 com. cable (length: 1.5m) Model: CC-RS485-RS485-150U	2 pcs	
Accessories	5.08-2P terminal	1 pcs	
Optional	onal USB to RS485 com. cable (length: 1.5m)		
Accessories	Model: CC-USB-RS485-150U	1 pcs	

## 5 Connection Diagram

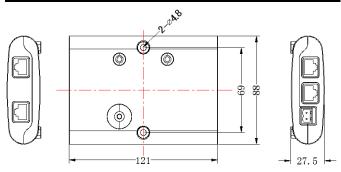


Note: When the monitoring module's power consumption is high, an external battery shall be used to power the RS485-1M2S. The WIFI and Bluetooth module can be connected to the RS485-1M2S directly (no need an additional communication cable).

# 6 Specifications

Model	RS485-1M2S			
Compatible products	Solar controller, inverter, and			
Compatible products	inverter/charger			
	5VDC			
Power supply	(Power supply by the communication port of			
	solar controller, inverter, or inverter/charger)			
Auxiliary power cupply	8~70VDC			
Auxiliary power supply	(Auxiliary power supply by the battery)			
Power consumption	0.3W			
Communication baud	115200 (Default)			
rate	9600			
Work temperature	-30°C~+50°C			
Storage temperature	-30°C~+80°C			
Enclosure	IP30			
Dimension (L x W x H)	121mm x 88mm x 27.5mm			
Mounting size	69mm			
Mounting hole size	Ф4.8mm			
Net Weight	121.8g			

# 7 Dimension



Any changes without prior notice!

Version number: V1.2