※ **Thanks for selecting the EPEVER WiFi 2.4G RJ45 D adapter; please read this manual carefully before using the product.**

※ **This product is not waterproof or dustproof. Do not use it in humid, high salt spray, corrosion, greasy, flammable, explosive, dust accumulative, or other severe environments.**

WiFi 2.4G Adapter

EPEVER WiFi 2.4G RJ45 D

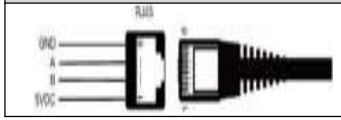
1. Overview

Through a local 2.4G WiFi network, the EPEVER WiFi 2.4G RJ45 D can transmit all operational data from the EPEVER solar controller, inverter, or inverter/charger to the EPEVER cloud server in real time. You can remotely monitor connected devices and set parameters via the EPEVER server platform, mobile APP or large screen.

- Applicable to EPEVER controllers, inverters, or inverter/charger with RJ45 port
- Use immediately after connecting; easy and convenient operation
- Directly powered by the communication port
- Up to 20 meters of communication distance
- Support the two working modes of local monitoring and "EPEVER Cloud".

2. Appearance

RJ45 Connector	Indicator	Instruction
	Green flashing fast (ON 1S, OFF 1S)	The WiFi adapter is powered on only. No device is connected to the WiFi adapter's hotspot, and the WiFi adapter's network has not been configured.
	Solid green	1. In remote control mode, the WiFi adapter is connected to the router successfully. 2. In the local connection mode, the adapter's WiFi hotspot is connected by the APP.
	Green flashing fast (100ms)	The adapter is connected to device.
	Green flashing slowly (ON 1S, OFF 3S)	In remote monitoring mode, the WiFi adapter connects to the server successfully.

RJ45 Connector	Pin	Definition	Pin	Definition
	1	+5VDC	5	RS485-A
	2	+5VDC	6	RS485-A
	3	RS485-B	7	GND
	4	RS485-B	8	GND

3. Specifications

Working voltage	5V ± 0.5V (Powered by RS485 com. port)	Interface standard	EPEVER communication standard V1-1.0
Power consumption	Peak emission: 150mA; Idle: 310uA	Work frequency	2.4 to 2.4835GHz
Enclosure	IP30	Work temperature range	-40℃ to 85℃
Communication method	RS485	Dimension	63mm x 19mm x 13.8mm
Communication parameters	115200bps, 8N1	Net weight	7.7g

4. System Connection

For controllers, inverters or inverters/chargers with RJ45 com. port, connect the WiFi adapter directly without a communication cable. For devices with non-RJ45 com. port, a supporting communication cable or adapter is needed to purchase. Please refer to the part list of corresponding devices for specific model.

The WiFi adapter working voltage is 4.5V – 5.5V and peak current is 150mA. Exceeding this voltage range may damage the adapter!

5. APP Operation

The WiFi adapter only supports Solar Guardian and cannot be connected to other servers.

Add the WiFi adapter and the connected device to the cloud sever by PC (https://gl.mysolarguardian.com/) or APP. Then, you will be able to monitor the device and set parameters by PC or APP (the following takes APP as an example).

1. Scan the QR code to download the APP

iOS Apple App Store

Android Google Play

2. Sign up & Login

❶ **Sign up**

Download the APP and open it, select the "international" node at login interface and click the "Sign up now" icon. Input the user name, mobile phone number or email, verification code, and password, and then select the user type and system type from the drop-down box and click the "Sign Up" to register a new account

❷ **Login**

After registering, return to the APP. Input the user name and password, select the "international" node, tick the "Remember me" (for quick login next time), and click the "Login" button to enter the APP home page.

3. Click to add gateway and device (There is local 2.4G WiFi network. The data collected by the WiFi adapter can be uploaded to the cloud.)

Step 1: After login to the APP, enter the "Site" page and click "Add" to enter the "Add New Site" interface.

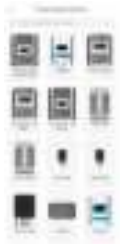
Step 2: Fill in the site name (or use the default name of the APP); after filling the remaining site information (not required), click "Save" to complete the site creation.

Step 3: Click the “One Click Add” button in the “Site List” interface to add a new gateway and device.

Step 4: Enter the "Gateway and Device Addition" interface, fill in the gateway name (or use the default name of the APP), and click "Access Method" to enter the gateway selection interface.

Step 5: Select EPEVER WiFi 2.4G RJ45 D and it will automatically return to the “Gateway and Device Addition” interface. Scan the QR code on the gateway sticker(1) or input the 22-digit gateway SN manually. Select the location (not requiredl) and tick the note message.

Step 6: On the “Gateway and Device Addition” interface, enter the device name (or use the default name of the APP), enter the device communication ID(2), and click “Select Product Series” to enter the device selection interface.



Step 7: Select the currently connected device to automatically return to the “Gateway and Device Addition” interface in Step 6. The “Confirm” button cannot be clicked if it is gray. Please check whether the information is correct or whether the required fields are completed.

Step 8: After filling in all the information, click “Next Step” to complete gateway and device addition; enter the network configuration information interface.

Step 9: Enter the local WiFi account and password, and click "Next Step."

Step 10: Click “WIFI Settings” to connect the mobile phone to the WiFi of the gateway (name HN_EPxxx, password: 12345678), and return to the APP after successful connection. Click “Next Step” access to the network.

Step 11: Click the "Network Switch" button to return to the “Settings” page of the mobile phone, switch the mobile phone to WiFi network or 4G network, and click "Finish" to enter the device list.

Step 12: Click the device to view the real-time data of the device. The “Configuration Overview” screen is displayed by default.

(1) Authorize the phone camera when adding the gateway via scanning QR code. Scan the QR code on the gateway sticker, the system will automatically verify the gateway SN. Only the gateway added to the production management system can be added to the cloud server. If the APP prompts "Gateway already exists," please contact technical support. (2) About the device communication ID: if the device is an inverter, the default ID will be 3; if the device is Inverter/Charge (UP HI, Upower) or MT80, the default ID will be 10; for other devices (eg. Charge Controller, etc), the default ID will be 1. If you modify the device communication ID, please fill in the actual ID.

4. Add device (There is no local 2.4G WiFi network. The data collected by the WiFi adapter cannot be uploaded to the cloud)

Step 1: Click "Local Connection" to enter the device interface.

Step 2: Select the adapter type (WIFI adapter) and click "Add" button to enter the "Add Device" interface

Step 3: Enter the device name (or use the default name of the APP) and communication ID; then click "Select Product Series" to enter it.

Step 4: Select the currently connected product series to automatically return to the “Add Device” interface in Step 3. The "Confirm" button cannot be clicked if it is gray. Please check whether the information is correct or whether the required fields are completed.

Step 5: Click "Select WiFi Gateway" to turn on the WiFi switch of the mobile phone and connect the mobile phone to the WiFi hotspot of the adapter (name HN_EPxxx, password: 12345678).

Step 6: After the connection is successful, return to the APP and click "Confirm" to automatically switch to the “ Real-Time Data ” monitoring interface.

Any changes without prior notice! Version number: V1.4