WiFi 2.4G Adapter

EPEVER WiFi 2.4G RJ45 A

EPEVER WiFi 2.4G DB9 B

1. Overview

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

Features:

• Applicable to EPEVER controllers, inverters, or inverter/charger with RJ45, DB9 interfaces

• Use immediately after connecting, easy and convenient operation

• Directly powered by the communication port

• Up to 30 meters communication distance

• Support the "Local" and "EPEVER Cloud" working mode.

• One key to restore the factory settings

2. Appearance

2.1 EPEVER WiFi 2.4G RJ45 A

• **Interface instruction**

No.	Name	Instruction
❶	RJ45 port	Connect to the solar controller, inverter, or inverter/charger
❷	Reload button	One key to restore factory settings **Note: Long press the Reload button with a sharp object when the terminal's power is on. The Link indicator flashes twice quickly, and the factory settings are restored successfully.**
❸	Link indicator	Indicate the communication status
❹	Power indicator	Indicate the power status

• **Indicator instruction**

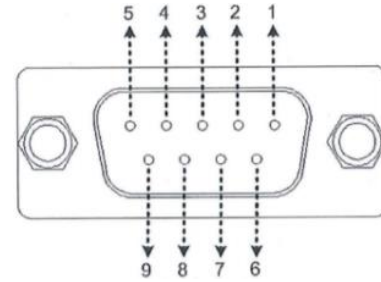| Indicator	Status	Instruction
Link indicator	ON solid in green	Connect to the WiFi
	OFF	Not connect to the WiFi
	Fast flashing in green	Reset to the factory mode
Power indicator	ON solid in green	Normal powered on
	OFF	Not powered on

2.2 EPEVER WiFi 2.4G DB9 B

• **Interface instruction**

No.	Name	Instruction
❶	DB9 male connector★	Connect to the solar controller, inverter, or inverter/charger
❷	Antenna	Enhance the signal transmission
❸	Reset button	One key to restore factory settings **Note: Long press the Reset button through the KEY hole with a sharp object when the terminal's power is on. The indicator light flashes twice**

quickly, and the factory settings are restored.

❹	Network Indicator	Indicate the communication status **(Observe the indicator status through the KEY hole)**
❺	Power Indicator	Indicate the power status

★ Connect the EPEVER WiFi 2.4G DB9 B to the solar controller, inverter, or inverter/charger by a DB-9 female connector. The wire sequence and name of the DB9 female connector are shown below.


No.	Name	Instruction	No.	Name	Instruction
1	NC	Floating	6	NC	Floating
2	NC	Floating	7	RS485-A	RS485-A
3	VCC2	Power2 (12V/200mA)	8	RS485-B	RS485-B
4	GND2	Power GND2	9	VCC1	Power1 (5V/400mA)
5	GND1	Power GND1			

• **Indicator instruction**

Indicator	Status	Instruction
Network Indicator	ON solid in green	Connect to the WiFi
	OFF	Not connect to the WiFi
	Fast flashing in green	Reset to the factory mode
Power Indicator	ON solid in green	Normal powered on
	OFF	Not powered on

3. System connection

Step1: Connect the WiFi transmission terminal to the controller, inverter, or inverter/charger through the RJ45 port or the DB9 connector. Take the connection diagram of the inverter/charger as an example as follows:
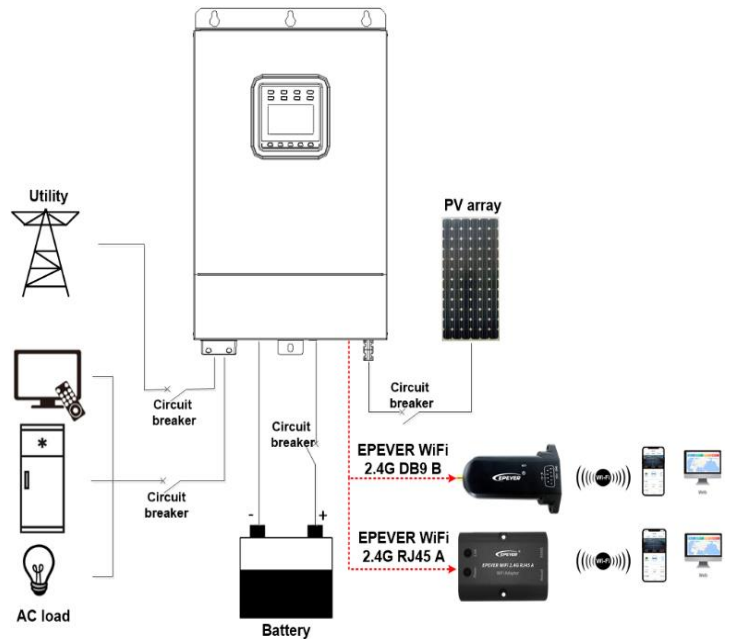
Note: EPEVER WiFi 2.4G RJ45 A is suitable for the controller, inverter, or inverter/charger designed with an RJ45 port. EPEVER WiFi 2.4G DB9 B is ideal for the device designed with a DB9 interface. For detailed connection cables, refer to the connected device's accessories list.

4. Operations

After successfully connecting the WiFi terminal to the controller, inverter, or

inverter/charger, the users remotely monitor the field devices through the PC, large screen, or mobile phone.

Take the APP as an example to introduce remote monitoring through the mobile phone.
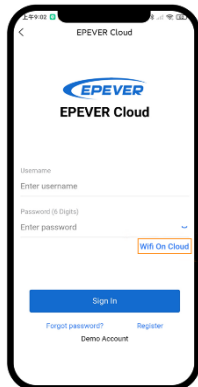
Scenario 1: There is a local 2.4G WiFi network. The WiFi terminal can upload the collected data to the EPEVER cloud automatically.
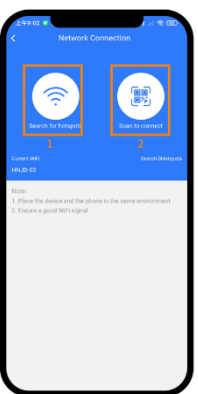
Operation Steps:

Step1: Turn on the WiFi switch on the mobile phone, and connect to the local WiFi network (**2.4G WiFi network is a must**).

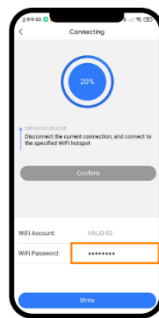**Step2:** Open the APP and click the "EPEVER Cloud" icon to enter the login page.

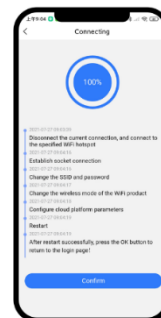**Step3:** Click the "Wifi On Cloud" icon to jump to the network connection page.

Step4: Connect the WiFi terminal to the 2.4G WiFi network by searching for the hotspots or scanning the QR code.

Step5: (Take the "Search for hotspots" as an example.) Click the hotspot's name, input the password or tick the "Original password" checkbox. Then click the "Connect" icon.

Step6: Input the WiFi password, and click the "Write" to connect the WiFi network.

Step7: After the connecting shows 100%, click the "Confirm" to return to the APP home page.

Step8: On the APP home page, click the "EPEVER Cloud" icon to jump to the login page. Input the user name and password, click the "Sign In" to enter the main page. Users remotely monitor the field devices by a mobile phone. **Note: Users can also operate the remote monitoring by the cloud platform (https://iot.epsolarpv.com/).**

Scenario 2: There is no local 2.4G WiFi network. The WiFi terminal cannot upload the collected data to the EPEVER cloud.

Operation Steps:

Step1: Turn on the WiFi switch on the mobile phone. Open the APP and click the "Local" to enter the "WiFi" connection page.
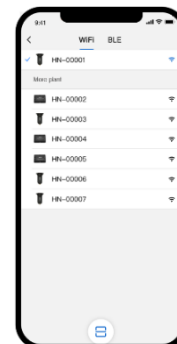
Step2: Click the WiFi terminal, connect it to the APP by following the prompts. Then enter the local monitoring (only the downloaded models can be monitored).

5. Specifications

Model \ Parameters	EPEVER WiFi 2.4G RJ45 A	EPEVER WiFi 2.4G DB9 B
Input voltage	DC5V	
Power consumption	Peak emission: 5V@100mA; Idle: 5V@40mA	
Enclosure	IP54	
Communication method	RS485	
Com. parameters	9600 ~ 115200bps, 8N1	
Working Frequency	2.4~2.4835GHz	
Antenna gain	2.5dBi~ 5dBi	
Environment temp.	-40℃~ 85℃	
Com. standard	EPEVER general communication standardV1-1.0	
Com. protocol	EPEVER IoT communication protocol V1.1	
Com. port	RJ45	DB9
Dimension	66.24* 51.28* 23.76mm	101.2* 64* 26mm
Net weight	37g	38g

6. Disclaimers

The warranty does not apply to the following conditions:

- Damage caused by improper use or inappropriate environment.
- The parameter setting exceeds the WiFi terminal's limit.
- Damage caused by working temperature exceeds the rated range.
- Unauthorized dismantles or attempted repairs.
- Damage caused by force majeure.
- Damage occurred during transportation or handling.