

01 Applications

Ezlink3000-US is an intelligent wireless data acquisition board compatible with the IEEE2030.5 protocol. It can collect and forward the data of the adapted inverter and transmit bidirectional encrypted data to the server through the protocol.

The board is connected to the inverter through the 5PIN interface to power itself and communicate with the inverter. It supports Bluetooth protocol, which allows device configuration, information reading, local diagnosis, and other functions through Bluetooth communication. The board also supports WiFi (standard), wired LAN (optional), and 4G (optional) communication methods, which allows it to communicate with iCloud, the power company, or a third-party monitoring device to complete data interaction, information query, and remote diagnosis. Bluetooth and WiFi signals are transmitted via the same internal integrated antenna, while the 4G signal is transmitted via a separate 4G antenna. The wired 10/100Mbps self-adaptive network port is also optional for wired network needs.

The Ezlink 3000-US board is convenient to operate, making the inverter smart and interconnected easily.

02 Power On

Step 1 Power on the inverter.

Step 2 Power on the router.

Step 3 Check communication status of the Ezlink through indicators.

Note: Check the indicators on the Ezlink and the inverter to confirm the communication status of the device.

Indicator/Silkscreen	Color	Status	Description
	Blue	Blink	The Ezlink is working properly.
		OFF	The inverter is powered off.
	Green	ON	The Ezlink is connected to the server.
		Blink 2	The Ezlink is not connected to the router.
		Blink 4	The router is not connect to the internet.
RELOAD	-	-	Short press to restart the Ezlink. Long press for 5 seconds to restore factory settings.

03 Commissioning

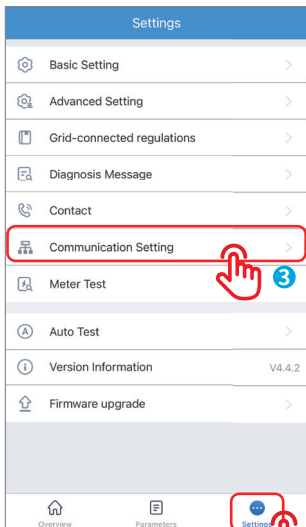
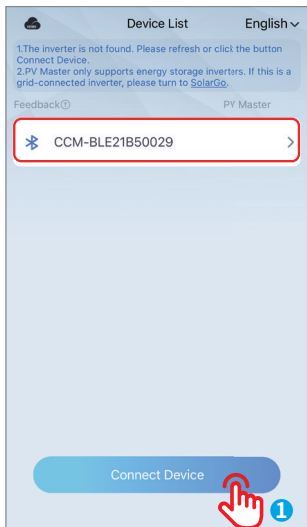
Commissioning via PV Master App



PV Master App

Step 1 Download and install the PV Master App.

Step 2 Connect the app and the device.



Step 3 Set communication settings of the device.

- The interface may differ depending on the communication method.
- Make sure that the WiFi RSSI value is higher than -60, -50 or higher is recommended.

When the RSSI value is less than -60, you should move the router closer to the device, remove the obstacle, or add a repeater to improve the signal strength.

< Communication Setting save **5**

4 **Wi-Fi** ☒

Network Name

WiFi_Burn-in ▼

Password

WiFi_Burn-in

DHCP ☒

If you want to set a specific IP address for the inverter, you can manually enter it after turning off DHCP.

IP address 0.0.0.0

Subnet mask 0.0.0.0

Gateway address 0.0.0.0

DNS server 192.168.225.1

LAN ☒

DHCP ☒

If you want to set a specific IP address for the inverter, you can manually enter it after turning off DHCP.

IP address 0.0.0.0

Subnet mask 0.0.0.0

Gateway address 0.0.0.0

DNS server 192.168.225.1

[Restore factory communication settings](#)

No.	Name	Description
1	DHCP	• Enable DHCP when the router is in dynamic IP mode. • Disable DHCP when a switch is used or when the router is in static IP mode.
2	IP Address	• Do not configure the parameters when DHCP is enabled. • Configure the parameters according to the router or switch information when DHCP is disabled.
3	Subnet Mask	
4	Gateway Address	
5	DNS Server	

04 Troubleshooting

No.	Problem	Solutions
1	Cannot find CCM-BLE**	1. Make sure that the inverter is powered on and the Ezlink device is connected properly. 2. Make sure that the smart device is within the communication range of the Ezlink device. 3. Restart the inverter or short press to restart the Ezlink.
2	Unable to connect to CCM-BLE**	1. Make sure that no other smart device is connected to Solar-WiFi**. 2. Restart the inverter or short press to restart the Ezlink, then reconnect CCM-BLE**.
3	 Indicator double blink	1. Make sure that the router is powered on. 2. Make sure that the LAN cable is connected tightly.
4	 Indicator quadruple blink	1. Make sure that the cables are connected properly, and the router can access the internet. 2. If the problem persists, contact the after sales service.
5	 Indicator off	• Check whether the inverter is powered on.

05 Technical Data

Model		Ezlink3000-US
General Parameters	Ethernet Interface(optional)	10/100Mbps self-adaption, Communcation distance $\leq 100\text{m}$
	Bluetooth	Bluetooth
	Installtion	Internal
	Power consumption (typical)	$\leq 2\text{W}$
	Operation Mode	STA
Wireless Parameters	4G & 3G Communication(optional)	LTE(FDD):B2/B4/B5/B12/B13/B14/B66/B71 WCDMA:B2/B4/B5
	WiFi Communication	802.11 b/g/n(2412MHz-2462MHz)
Environment Parameters	Operating temperature range	-30 ~ +60°C
	Storage temperature range	-30 ~ +70°C
	Relative humidity range	0-100%, No consideration
	Max. operating altitude	<4000m



Website

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Local Contacts

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

FCC Label Instructions

If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains FCC ID: 2AU7JEZLINK3000-US". Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement.

OEM Guidance

1. Applicable FCC rules

This device complies with part 15.247 of the FCC Rules.

2. The specific operational use conditions

This module can be used in IoT devices. The input voltage to the module is nominally 5V DC. The operational ambient temperature of the module is -30 °C ~ 60 °C. the external antenna is allowed, such as monopole antenna.

3. Limited module procedures

N/A

4. Trace antenna design

N/A

5. RF exposure considerations

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. If the equipment built into a host as a portable usage, the additional RF exposure evaluation may be required as specified by 2.1093.

6. Antenna

Antenna type: monopole antenna; Peak antenna gain :2.5 dBi

7. Label and compliance information

An exterior label on OEM's end product can use wording such as the following: "Contains Transmitter Module FCC ID: 2AU7JEZLINK3000-US" or "Contains FCC ID: 2AU7JEZLINK3000-US"

8. Information on test modes and additional testing requirements

9. The modular transmitter has been fully tested by the module grantee on the required number of channels, modulation types, and modes, it should not be necessary for the host installer to re-test all the available transmitter modes or settings. It is recommended that the host product manufacturer, installing the modular transmitter, perform some investigative measurements to confirm that the resulting composite system does not exceed the spurious emissions limits or band edge limits (e.g., where a different antenna may be causing additional emissions).

10. The testing should check for emissions that may occur due to the intermixing of emissions with the other transmitters, digital circuitry, or due to physical properties of the host product (enclosure). This investigation is especially important when integrating multiple modular transmitters where the certification is based on testing each of them in a stand-alone configuration. It is important to note that host product manufacturers should not assume that because the modular transmitter is certified that they do not have any responsibility for final product compliance.

11. If the investigation indicates a compliance concern the host product manufacturer is obligated to mitigate the issue. Host products using a modular transmitter are subject to all the applicable individual technical rules as well as to the general conditions of operation in Sections 15.5, 15.15, and 15.29 to not cause interference. The operator of the host product will be obligated to stop operating the device until the interference have been corrected .

12. Additional testing, Part 15 Sub part B disclaimer The final host / module combination need to be evaluated against the FCC Part 15B criteria for unintentional radiators in order to be properly authorized for operation as a Part 15 digital device.

The host integrator installing this module into their product must ensure that the final composite product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules, including the transmitter operation and should refer to guidance in KDB 996369. For host products with certified modular transmitter, the frequency range of investigation of the composite system is specified by rule in Sections 15.33(a)(1) through (a)(3), or the range applicable to the digital device, as shown in Section 15.33(b)(1), whichever is the higher frequency range of investigation. When testing the host product, all the transmitters must be operating. The transmitters can be enabled by using publicly-available drivers and turned on, so the transmitters are active. In certain conditions it might be appropriate to use a technology-specific call box (test set) where accessory 50 devices or drivers are not available. When testing for emissions from the unintentional radiator, the transmitter shall be

placed in the receive mode or idle mode, if possible. If receive mode only is not possible then, the radio shall be passive (preferred) and/or active scanning. In these cases, this would need to enable activity on the communication BUS (i.e., PCIe, SDIO, USB) to ensure the unintentional radiator circuitry is enabled. Testing laboratories may need to add attenuation or filters depending on the signal strength of any active beacons (if applicable) from the enabled radio(s). See ANSI C63.4, ANSI C63.10 and ANSI C63.26 for further general testing details.

The product under test is set into a link/association with a partnering device, as per the normal intended use of the product. To ease testing, the product under test is set to transmit at a high duty cycle, such as by sending a file or streaming some media content.