

# **EPEVER TCP RJ45 A**

# **Operation Guide**



# Contents

1 Overview	1
1.1 Features	1
1.2 Applicable products	1
1.3 Prerequisite software	2
2 Connection	3
2.1 EPEVER cloud connection	3
2.2 LAN connection	4
3 Configure and monitor	5
3.1 Configure and monitor by the EPEVER cloud	5
3.2 Configure and monitor by the LAN (Serial port)	11
1. Check the local IP address	11
2. Configure parameters by the TCP tool	12
3. Add Virtual COM	13
4. Monitor devices by the PC software	14
3.3 Configure and monitor by the LAN (Network)	16
4 Pin definition	19
4.1 RJ45 port	19
4.2 3.81-4P terminal	19
4.3 Water-proof RS485 port	19

# **1** Overview

# 1.1 Features

- Equipped with a standard network cable port
- High compatibility without any drivers
- Unlimited communication distance
- Flexible power supply for the communication interface
- Adjustable 10M/100M Ethernet port
- Designed with low power consumption, and high running speed

# **1.2 Applicable products**

		Applicable products						
TCP module	Product type	Series Name	Connection port	Communication cable	Communication method	Others		
		LS-B GM-N VS-BN XTRA-N TRIRON Tracer-AN Tracer-BN MSC-N	RJ45	CC-RS485-RS485-20 0U		PC		
EPEVER TCP RJ45 A	Controllers	EPIPDB-COM				cable		
it come		iTracer-ND			RS485 to TCP/IP			
Serial Device Server		iTracer-AD	3.81-4P (in-line)					
		DuoRacer		CC-RJ45-3.81-150U		485-200U		
		LS-BP		1				
		Tracer-BP	3.81-4P (4 round holes)					
		Tracer-BPL	CC-RS485-RS 0U-4LLT	CC-RS485-RS485-15 0U-4LLT				
		NP		$\sim$				
	Inverters	IP-Plus	RJ45					
		IPT		0U-R5485-20				

	IP				
	IM4230				
Inverter/charger	UP-Hi	R M5			
interterronaliger	UP	1.040	CC-RS485-RS485-20 0U		
Note: Other EPEV	ER products, whic terfaces, are suital	h conform to the ' ble for the TCP mo	Standard Modbus Comr odule.	nunication Protocol	" and have

# 1.3 Prerequisite software

0			Prere	equisite software		
Component	Туре	Name	Installer	Figure	Function	Source
	EPEVER TCP configuration tool	CeBoxDtu 05Tools	CeBoxDtu05 Tools.exe	CeBoxDtu 05Tools	Check or modify the EPEVER TCP module's parameters (work mode, protocol, local IP, DHCP, slave address, subnet, gateway, and server information).	
TCP Serial Device Server	Virtual com software		USR-VCOM.exe	USR-VCOM	Virtualize the IP address of the TCP module to a COM port	EPEVER
	PC monitor software	Solar Station Monitor	Solar Station Monitor.exe	Solar Station MonitorV1.95	Monitor devices working status or modify related parameters.	
Applicable PC system	WindowsXP, window	ws7, windows8, w	/indows10			

# **2** Connection



Notes:

- Select an appropriate communication cable per the communication interface of the controller, inverter, or inverter/charger. Detailed communication cables refer to chapter <u>1.2 Applicable</u> <u>products</u>.
- After successfully connecting to the PC through the TCP module's COM port, users can modify the TCP module's parameters or monitor the connected devices by the PC software.

## 2.1 EPEVER cloud connection



## **2.2 LAN connection**



\*Select an appropriate communication cable per the communication interface of the controller, inverter, or inverter/charger.

# 3 Configure and monitor

# 3.1 Configure and monitor by the EPEVER cloud

**<u>Step1</u>**: Connect the device and power it on.

Connect the device per the chapter "2 Connection > 2.1 EPEVER cloud connection", and power it on by the battery.

Notes: The rated input voltage of the TCP module is 5VDC (powered by RS485 com. port).

**<u>Step2</u>**: Enter the EPEVER cloud server (<u>https://iot.epever.com</u>) on the PC or open the cloud APP on the phone. And then log in with a registered account.

	Scan code to d	ownload app
	EPEVER	Cloud
ይ	Demo	
		Forgot Password?
-		
Re	emember me	Sign Up
	Sign	In

Take the EPEVER cloud on PC as an example: log in with a streetlight account, and enter the main interface of the streetlight management system.

	EPEVER Cloud						2022.06.10 16:07	15 Friday 🧔 demo+ 🙆
NAVIGATION	Color.		Duraliza		Office		Testa:	
nstallation -	0		Running 0		8	. @.	0	
Streetlight -	0.00% Total Plants Percentage	$\sim$	0.00% Total Plants Percentage	$\mathbf{\nabla}$	100.00% Total Plants Percentage	<b>1</b>	0.00% Total Plants Percentage	$\overline{\mathbf{v}}$
SERVICE :			Electricity Statistics		Daily	Monthly Annually	Money Saved	
	Dally Charge Monthly Charg	je	Unit:kWh		•	Daily Charge  Daily Use		° •
Support	0.00kwh						Daily Income	
🚔 SDK API	0.00kwh Annually Char 0.00kwh	ge	0.8				¥ 0.00	(¥)
			0.4				-	
	10 Total Plants	8	0.2				Monthly Income	¥0.00
	- Total Power	2.96KWW	0 0 0	8 4 5	6 7 8	9 10	Total Income	¥0.00
	Historical Online Rate				Daily	Monthly Annually	Build Better World	
	1				• Onlin	ne Quantity 💿 Online Rate		(00)
	0.8							CU2
							Total Tree Saved 0.00 Number	Total CO2 Reduced (m <sup>2</sup> ) 0.00kg
	0.6							-
	0.4						(SO <sub>2</sub> )	<b>(</b>
	0.2						Total SO2 Reduced (m*)	Total Coal Reduced (ton)
	0 2022-06-01 2022-06-02	2022-06-03	2022-06-04 2022-06-05	2022-06-06 2022-06-0	7 2022-06-08 2022-06-0	09 2022-06-10	0.00kg	0.00kg

#### Notes:

• Log in with a power plant account to enter the plant management interface.

• The EPEVER cloud operations on the mobile phone are similar to that on PC; please refer to the EPEVER cloud APP user manual.

(Optional) Step 3: Add a streetlight project (if it already exists, skip the step).

Click "Streetlight > Project Management" in the left navigation window to add/edit/delete the projects.

	EPEVER Cloud				2020.09.04 10:01:54 Friday	/ demo 🗸	8
NAVIGATION	— <u>.</u> . EPever street light	+ Add O Refresh	Delete				
nstallation -	요 LEM Mock-up						
🗢 Streetlight -	요 Phoenix Mountain Fire Prevention	Project Info					
Project Management		Account(*)		Password(*)			
Concentrator List		Contact Number		Email Address(*)			
		Contact Address		Enabled State	Active		•
SERVICE		Role	Users •	Creation Date	2020-09-04 10:12:14		
🖹 Support 🝷		Time Zone	UTC+8: China, Malaysia, Philippines, Singapore, Taiwan, N 🗸	Project Name(*)			
		Controller select LS1012EPD Tracer\$20AN Tracer\$20AN Taxer\$20AN Eselect All Email Notification		Save		Remove A	JI

Click + Add to add a new project.

Project Info			
Account(*)		Password(*)	
Contact Number		Email Address(*)	
Contact Address		Enabled State	Active •
Role	Users •	Creation Date	2022-01-11 15:08:26
Time Zone	UTC+8: China, Malaysia, Philippines, Singapore, •	Project Name(*)	
Currency	RMB	Electric Charge	0.7
Controller select			
LS1012EPD	A		
UPower			
SG5000			
Tracer2606BPL		<i></i> ₽	
MT80			
EPS1000-M			
PV500-4T-4.0B			
ISKN-1000\/A			
Select All			Remove All
Email Notification			
		Save	

Input the project information (Items marked with\*are required) and select controllers. Click the "Save" button to add the new project.

# Note: When adding a new project, the item "Account" in the [Project Info] column must be an account that has not been signed up yet.

**<u>Step4</u>**: Add the EPEVER TCP module to the cloud server.

Click "Streetlight > Concentrator List" in the left navigation window to enter the below figure.

WAVIGATION	ー 島 EPever street light									
nstallation -	且 LEM Mock-up	+ Add O Refresh Z Operations -						GPRS ID		
Streetlight -	A Phoenix Mountain Fire Prevention	CONCENTRATOR	CONCENTRATOR NO	SIM CARD	ONLINE STATUS	RSSI	MACHINE NO	UPDATETIME	CREATEDATE	VIDEO KE
Project Management		CCU-1	00000006		online	(0	eBox-DTU-05	09/04/2020 09:24:25	03/25/2020 09:48:10	
Concentrator List			00000097		online	(10-	eBox-4G-01	09/04/2020 09:27:17	08/19/2020 09:48:06	
Light List		LEM CCU 01	00000104	24444444444	online	((:-	eBox-4G-01	09/04/2020 09:27:09	07/10/2020 09:54:04	
		DTU-00341	00000341		online	((e	eBox-4G-01	09/04/2020 09:27:10	08/04/2020 13:13:49	
RV4CE		HuiZhou EPEVER Street light	00000377		online	(0	eBox-DTU-05	09/04/2020 09:26:55	08/04/2020 13:13:50	
Support *		HulZhou EPEVER Street light 003	00000398		online		eBox-DTU-05	09/04/2020 09:27:18	08/04/2020 13:13:49	
		light-014	00000014		offline		eBox-DTU-05	08/25/2020 15:04:02	05/07/2020 17:07:24	
		4G-0023	00000023	1440673448329	offline		eBox-4G-01	09/04/2020 08:13:02	06/05/2020 21:29:30	



	Add Row	×
Concentrator Name		
Concentrator ID(*)	0000000	
IMEI(*)	000000000000000000000000000000000000000	
SIM Card		
Assigned To(*)	EPever street light	•
Product Model	EBox-DTU-05	•
Location	0.0,0.0	0
	Cancel Submit	

Input the Concentrator Name, Concentrator ID, IMEI, and SIM Card. Select the Product Model, Location, and project (the concentrator is assigned). Click the "Submit" button to add the new concentrator. **Notes:** 

- Items marked with \* are required.
- When adding a concentrator, query the required information through the product silk screen label or consult the servicer directly.
- Click the eiton to enter the map interface, select the specific location directly and click the "Submit" button.

(Optional) <u>Step 5</u>: Modify the TCP module's parameters (if there is no need to modify, skip the step). Select the concentrator and click " ∠ Operations -> Communication parameters" to read or write.

	Communi	cation Parame	eters	×
Parameter Code	Heatbeat(S)			•
Parameter Value	50			
		Cancel	Read	Setting
		100%		
HZ-0341 Execution su Execution success.	ccess.			

1) Select a communication parameter from the [Parameter Code] drop-down list and click the "Read" button to read the parameter.

Note: The concentrator cannot be multi-selected when reading the parameter. Only one concentrator can be read once time.

2) Select a communication parameter from the [Parameter Code] drop-down list and input a new value in the [Parameter Value] item. Click the "Setting" button to set the new value to the selected concentrator. **Notes:** 

- The concentrator can be multi-selected when setting the parameter. The parameter of multi concentrators can be set once time.
- The current device's parameters can be normally read or set when running. When the current reading or setting is not finished, other parameters cannot be carried out; the interface prompts reading or writing. The TCP module cannot be read or written when offline.

<u>Step 6</u>: Add devices connected with the TCP module to the EPEVER cloud server. Take the connection of the streetlight controller as an example:

Click "Streetlight > Light List" in the left navigation window to enter the light list interface.

STREETLIGHT NAME	MODULE NO	CONTROLLER MODEL	ONLINE STATUS	RSSI	STREET LIGHT TYPE	PV ARRAY TYPE	MATERIAL	UPDATETIME	ROAD NAME	OPERATIO
HZ-0377	000000183	Tracer2606BPL	online	(î)	Solar street lamp	Polysilicon	Cold galvanizing	01/11/2022 15:21:30		Edit
HZ-006	000000184	Tracer2606BPL	online	(	Solar street lamp	Polysilicon	Cold galvanizing	01/11/2022 15:21:30		Edit
HZ-009	000000185	Tracer2606BPL	online	((;	Solar street lamp	Polysilicon	Cold galvanizing	01/11/2022 15:21:30	55555	Edit
4G-00341	000000187	Tracer2606BPL	online	(	Solar street lamp	Monocrystalline silicon	Cold galvanizing	01/11/2022 15:20:53		Edit
HZ-0375	000000188	Tracer2606BPL	online	<b>?</b>	Solar street lamp	Polysilicon	Cold galvanizing	01/11/2022 15:21:37		Edit
HZ-005	000000189	Tracer2606BPL	online	<b>?</b>	Solar street lamp	Polysilicon	Cold galvanizing	01/11/2022 15:21:37		Edit
HZ-004	000000190	Tracer2606BPL	online	<b>?</b>	Solar street lamp	Polysilicon	Cold galvanizing	01/11/2022 15:21:37		Edit
4G-00398	0000000000	EPS1000-M	offline		Solar street lamp	Polysilicon	Cold galvanizing	08/12/2021 16:03:53	1	Edit
HZ-016	000000000	Tracer2606BPL	offline		Solar street lamp	Polysilicon	Cold galvanizing	08/12/2021 16:03:24		Edit
4G-00350	0000000000	EPS1000-M	offline		Solar street lamp	Polysilicon	Cold galvanizing	10/13/2021 06:41:38	1	Edit

Click

+ Add to enter the "Add Light" interface.

	Add Row	×
Light Name		
Module No(*)	000000000	
Concentrator No(*)	00000016	•
Controller Model(*)	LS1012EPD	•
Trade	Solar Street Lamp	•
Duedate	Polycrystalline	•
Machine No	Cold-Dip Galvanization	•
Machine Date		
Slave Address(*)	1	Q
Location	0.0,0.0	0
	Cancel Submit	

Input light information such as Light Name/Module No/Machine Date/Slave Address, select concentrator Number to which the light is assigned, Controller Model, Trade, Duedate, Machine No, and Location. Click the "Submit" button to save.

#### Notes:

- Items marked with \* are required.
- "Module No" is the number of the slave LORA connected to the streetlight controller, which can be obtained directly from the *LORA configuration table*.
- "Slave Address": 1 for the controller, 3 for the inverter, and 10 for the inverter/charger. Please do not modify it; otherwise, normal communication may be affected.
- For the "Location" item, click the <sup>©</sup> icon to enter the map interface, select the specific location and click the "Submit" button.

(Optional)<u>Step 7</u>: Modify the streetlight controller's parameters (if there is no need to modify, skip the step).

Select the streetlight and click " COPERations > Batch parameters to read or write parameters.

tery Time Output power(W)	
Output power(W)	
Output power(W)	
Operation period(1-6)	
Work time	
Load Rated Current Percentage	
%	
94	
70	
	Operation period(1-6) Work time Load Rated Current Percentage %

In the [Batch Setting] interface, users can read or write the Load/Battery/Time tab parameters. Detail instructions about parameters on the Load/Battery/Time tab; refer to the EPEVER cloud server user manual.

Notes:

- Multi streetlight controllers of the same series can simultaneously carry out the [Batch parameters]. In contrast, the different series cannot simultaneously carry out the [Batch parameters].
- The streetlight controller cannot be multi-selected when reading the parameter. Only one device can be read at a time.
- The streetlight controller can be multi-selected when writing the parameter. Select a parameter on the [Batch parameters] interface and input a new value. Click the "Write" button.
- The current device's parameters can be normally read or set when running. When the current reading or setting is not finished, other parameters cannot be carried out; the interface prompts reading or writing. When the current device is offline, it cannot be read or written.

**Step 8:** Remote monitor the streetlight.

#### 1. Turning the light on/off

Select the streetlight and cli	ick " 🖍 Operations 🔸	> Lamp on" to po	p a prompt box.
		Light ON	×
		Cancel Lamp On	

Click the "Lamp On" button to turn the light on remotely.

Note: Click " ∠ Operations → > Lamp off" to turn the light off remotely.

#### 2. Real-time monitoring

Click "Installation > Monitoring" in the left menu navigation window to enter the monitoring interface. Real-time monitor the streetlights, remote turn on/off lights, and set parameters.



## 3.2 Configure and monitor by the LAN (Serial port)



#### 1. Check the local IP address

🖾 Run 🛛 🗙	
Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.         Open:       cmd         OK       Cancel	<ol> <li>Pop up the "Run" window by clicking the shortcut key "+R" on the PC keyboard, enter the "cmd" command, and press the "Enter" key.</li> </ol>
C:\WINDOWS\system32\cmd.exe Microsoft Windows [Version 10.0.19042.1348] (c) Microsoft Corporation. All rights reserved. C:\Users\Admin>     ipconfig	2. Enter the "ipconfig" command in the pop-up window and press the "Enter" key to view the local IP address.



#### 2. Configure parameters by the TCP tool

Connect to PC	<ol> <li>Connect the "COM" port of the TCP module and the PC through the USB to RS485 communication adapter (additional purchased). When the Link indicator is green solid, the connection is successful.</li> </ol>
CeBaxDhu05Tools_TCP(V3.11)         v         č         P         Search CeBaxDhu05Tools_TCP(V3.11)           *         Name         Date modified         Type         Size           data         09/06/2022 17:42         File folder           *         CeBaxDhu05Tools         07/05/2022 17:42         File folder           *         Recvlog 2022-06-09         09/06/2022 17:40         Application         11,422 KB           *         Recvlog 2022-06-09         09/06/2022 17:40         Text Document         31 KB           *         tu         09/06/2022 17:42         Configuration set         1 KB	2. Click to open the "CeBoxDtu05Tools.exe" tool, which can be requested from the after-sales technicians.
eBox product configuration tool V3.11 (For EPEVER-TCP-R.M3-A) (Release)      COM: COM9      COM9      Conect Read Write MAC: Scan QR code      QR code Info:         by USB         QR Code ID:         by USB         Comect Read Write MAC: Comect Read         Write MAC: Scan QR code         QR code ID:         by USB         QR Code ID:         by USB         QR Code ID:         by USB         Comect Read Write MAC: Scan         Scart Scan         Scan	<ol> <li>Select a serial port from the "COM" drop-down list, and click the "Open" button.</li> <li>Note: Install the serial port driver tool (USB-SERIAL CH340) first; otherwise, the PC cannot identify the serial port. The driver tool can be requested from the after-sales technicians</li> </ol>

# eBox product configuration tool V3.11 (For EPEVER-TCP-R445-A) (Release)       -       ×         COM:       COM:       Cose       Connect       Read       Write       MAC:       2022060914548027       Scan QR code         QR code Info:	<ul> <li>4. Click the "Connect" button to read the TCP module parameters. Modify the parameters by the sequence number marked on the left figure : <ol> <li>Change the "Work Mode" to" Server."</li> <li>Change the "protocol" to "transmit."</li> <li>The first 3 bits of the "Local IP" item should be consistent with the current PC. The current PC's local IP is 192.168.20.24. Thus the "Local IP" item needs to be changed to 192.168.20.130 (the last bit can be written at will).</li> <li>Change the "DHCP" to "Disable."</li> <li>"Slave Addr": 1 for the controller, 3 for the inverter, and 10 for the inverter/charger.</li> <li>The value of the "subnet" and "gateway" items should be consistent with the current PC's subnet is 255.255.255.0, and the default gateway is 192.168.20.1. Change the value of the</li> </ol> </li> </ul>
elsos product comiguration tool v3.11 (por VPVENE (LP-VGA-A), (Meleake)     elsos product comiguration tool v3.11 (por VPVENE (LP-VGA-A), (Meleake)     COM: COM: COM: COM: Comed. Read Write MAC: 202205091454027     Scan QR code     QR code Info:     Code Sammer: QR Code ID: Samt Stop      Device Info:     Device Info:	<ul> <li>(5) "Slave Addr": 1 for the controller, 3 for the inverter, and 10 for the inverter/charger.</li> <li>(6) The value of the "subnet" and "gateway" items should be consistent with the current PC. The current PC's subnet is 255.255.255.0, and the default gateway is 192.168.20.1. Change the value of the "subnet" and "gateway" items to the same.</li> <li>(7) "Server Info": 65010 is the COM number</li> </ul>
Sheld command         Writing ID:         00000018         Writed ID:         1         SIM Error         0         dead            OK         00000018         01012         1         SIM Error         0         dead            2022-06-10 14:25:10 : wrted : 100%         00000018         paraments wrted successd	After modifying the above parameters, click the "Write" button.

#### 3. Add Virtual COM



	2. Click the "Add COM" icon to add a virtual COM port per the following procedures:
Ast Cold         Cald/DM         Carrent         Fearling         Normal         Start KOM         Data           Research         COM Have         Parameters         COM Have         Parameters         Common Have Parameters         Research         Common Have Parameters         Parameters         D         D         Conversing         D           Not used         TOP Draw         Start Mark         Start         Start         D         D         Conversing         D	(1) "Virtual COM": COM1~COM255. For example, select "COM7 ".
Visual COM/7	(2) "Net Protocol": Select "TCP Client."
Net Product         [127:1244]         22]           Prevel Product         [127:124]         121           Prevel Product         [50:00]         [50:00]           Local Prove         [50:04]         [50:04]	(3) "Remote IP/addr": Enter the "Local IP (192.168.20.130)" set by the TCP tool.
Peasks OC Care Associety	<ul><li>(4) "Remote Port": Automatically display "65010" by the TCP Tool.</li></ul>
	After finishing all settings, click the "OK" button.
€ USE-VCOM Visual Senial Port Series V13.63.935         -         IX           Device()         Texto D         Option()         IPX         Help ()           AutOM         Mark         Automatic         Secief ()         IpX         Help ()           AutOM         Mark         Automatic         Secief ()         IpX         Help ()         IpX           AutoM         Mark         Automatic         Secief ()         IpX         IpX         Help ()         IpX           Revises         COM/7         Mark and         TOP Clere         192 (10) 20 (10)         OD19         0         Connected         0         Connected	<ol> <li>The "Net State" column displays "Connected," indicating that the virtual COM has been added successfully.</li> </ol>
	Note: If the "Net State" column displays a failed connection, please check whether the TCP module and the current PC are in the same network.

4. Monitor devices by the PC software



Charge Controller V1.95-Windows >	2. Download the PC software "Charge Controller V1.95 Windows" from the EPEVER website: <u>https://www.epever.com/support/softwares/</u> . Install the PC software "Solar Station MonitorV1.95" as the <i>Installation guidance</i> .
PFVE	3. Double click the icon Soler Station on the PC to open the "Solar Station MonitorV1.95" software. The initial interface is shown in the left figure.
E CPUEL Advoider Setter Monitoring Maintenance Height Setter Monitoring Maintenance Height Setter Height S	<ul> <li>4. Click the "System" menu to pop a "Station Information" box. Then click the "Controller" tab and select "COM7" for the "Port" item ("COM7" is the virtual COM set in chapter <u>3.</u> <u>Add Virtual COM</u>).</li> <li>After finishing all settings, click the "Add" button.</li> </ul>
Fortischer 2     F	<ul> <li>5. After adding the "COM7", it displays "COM7 (Doesn't exist or not yet set up)" in the left navigation window. Configure the "COM7" in the following procedures.</li> <li>(1) Click the "COM7 (Doesn't exist or not yet set up)" in the left navigation window.</li> <li>(2) Click the "Port Config" on the top menu her to non up a "Social Part Sotting" here</li> </ul>
	<ul> <li>(3) Select "COM7" for the "Port" item.</li> <li>(4) Click the "Add" button to add the "COM7" into the "Configuration" blank field; then, the "Add" button automatically becomes the "Update" button.</li> <li>(5) Select the "COM7 "in the "Configuration" field, and click the "Update" button to field.</li> </ul>

6 PPUR — Administrator System(2) Vec(2) Port System(2) Vec(2) Port System (2) Port System	C Config (C Fauenders (E) Monitoning (E) Maintenance (E) Help (E)	Image: Note of the second s
Staten(F) View(V) Port System(F) View(V) Port Staten(F) View(V) Port States View(F) Port States View(F) Port States View(F) Port Batter Dates Port Dates Port Ba	or	6. Click the "Parameters" on the top menu bar to monitor the devices and modify related parameters.

# 3.3 Configure and monitor by the LAN (Network)



CeBox/Dtu05Tools_TCP(V3.11)         V         V         Search CeBox/Dtu05Tools_TCP(V3.11)           *         Name         Date modified         Type         Size           data         09/06/2002 17:42         File folder         Size           *         E CeBox/Dtu05Tools         07/07/2002 17:42         File folder           *         Beex/og 2022-06-09         09/06/2002 17:40         Application         11,422 KB           *         It         09/06/2002 17:42         Test Document         31 KB           *         It         09/06/2002 17:42         Configuration sett         1 KB	2. Click to open the "CeBoxDtu05Tools.exe" tool, which can be requested from the after-sales technicians.
eBox product configuration tool V3.11 (For EPEVER-TCP-RJ45-A) (Release)     COM: MetWork      Open Connet Read Write MAC: Scan QR code     QR code Info:     Code Scanner:      y USB     QR Code ID:          Store: Store         Store: Store: Store         Store: Store: Store         Store:	<ol> <li>Select "Network" from the "COM" drop-down list, and click the "Open" button.</li> </ol>
e ellox product configuration tool V2.11 (for EPKVBR-TCPRAS-A) (Release)	<ol> <li>Click the "Connect" button to pop up the "please input RTU ID (8 bit)" prompt box. Input the 8-bit RTU ID to be configured and click the "OK" button (Take the RTU ID "00000018" as an example).</li> </ol>
eBox product configuration tool V3.11 (For EPEVER TCP-RM5-A) (Release)         -         ×           COH:         NEXWork         Cose         dsconnect         Read         Wte         MAC:         20220097454027         Scan QR code           COH:         NexWork         Cose         dsconnect         Read         Wte         MAC:         20220097454027         Scan QR code           Code find:	<ul> <li>5. Click the "Read" button to display the TCP module information. Check whether the displayed information conforms to the request below.</li> <li>ID: It shall be the RTU ID set in the previous step.</li> <li>Work Mode: It shall be the "Client."</li> <li>Protocol" It shall be the "HNJD."</li> <li>DHCP: It shall be "Enable."</li> <li>Slave Addr: 1 for the controller, 3 for the inverter, and 10 for the inverter/charger. If the TCP module information conforms to the above request, you do NOT need to modify them. Otherwise, normal communication will be affected. If the TCP module information is not the same as the above request, modify them and click the "Write" button to issue the new parameters.</li> </ul>

CPERE = UPER Code	Descritered de la construir de	<ul> <li>6. Enter the EPEVER cloud server (<u>https://iot.epever.com</u>) on the PC. Click "Streetlight &gt; Concentrator List" to enter the concentrators management page.</li> <li>Input the RTU ID (such as 00000018) and click on the second the specified TCP module. If it displays "online" status, the TCP module successfully has been added to the EPEVER cloud server.</li> </ul>
-------------------	--	--

Note: After successfully adding the TCP module to the EPEVER cloud server, end-users can monitor the device connected with the TCP module by the EPEVER cloud server or PC software.

# **4 Pin definition**

# 4.1 RJ45 port

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



# 4.2 3.81-4P terminal

Pin	Definition	) +5V
1	+5VDC	ВН
2	RS485-B	
3	RS485-A	
4	GND	

# 4.3 Water-proof RS485 port

Pin	Definition
1	+5VDC
2	RS485-A
3	RS485-B
4	GND



Any changes without prior notice! Version number: V1.1

HUIZHOU EPEVER TECHNOLOGY CO., LTD. Tel: +86-752-3889706 E-mail: info@epever.com Website: www.epever.com