# GoodWe Modbus
# TCP/IP Communication Solution

**VER 03, UPDATED ON DEC 13, 2021**

GoodWe provides a communication protocol on storage inverters through MODBUS RTU or TCP/IP, which is a communication solution with third party devices.

● **Compatibility Map:**

|  | MODBUS RTU | | MODBUS TCP/IP | |
|---|---|---|---|---|
|  | Compatibility | Firmware | Compatibility | Firmware |
| ES/EM/SBP | √ | ARM 01 or higher | √ | ARM 15 or higher |
| ET/BT/EH/BH/EHB | √ | ARM 01 or higher | √ | ARM 13 or higher |
| ETC/BTC | √ | ARM 01 or higher | ✕ | / |

● **Requirements of Using MODBUS TCP Protocol:**



**LAN Module /Wifi+Lan Module**

1. Firmware of ARM chip shall be 13 or higher version for high voltage battery inverter , or the firmware of ARM chip shall be 15 or higher version for low voltage battery inveter.

2. Use LAN module or Wifi+Lan module instead of Wi-Fi module Note: As the default communication method is by Wi-Fi, LAN modules or wifi+Lan module for MODBUS TCP communication shall be purchased separately from GoodWe and take over Wi-Fi module.

3. Please contact GoodWe sales to apply for the document

● **Module select**

There are 2 types of Wifi+Lan Module: 5 pin terminal and USB terminal. Different inverter use different modules. Please refer to the following table.
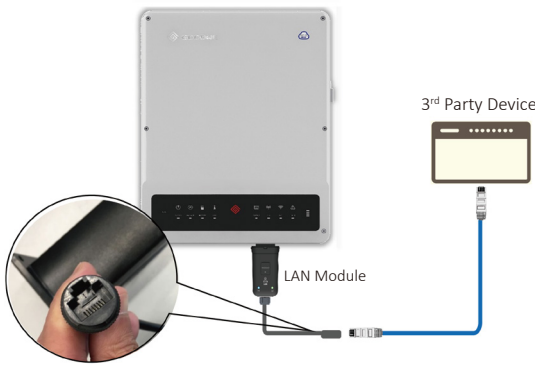
|  | Compatibility |
|---|---|
| ES/ET/BT/EH/BH/EHB | USB terminal module |
| EM/SBP | 5 pin terminal module |

## ● Wirings Diagrams for MODBUS TCP Communication

### 1. Direct connection to LAN module

3rd Party Device

LAN Module

### 2. Connect in the Ethernet network with inverter

Router     3rd Party Device

LAN Module
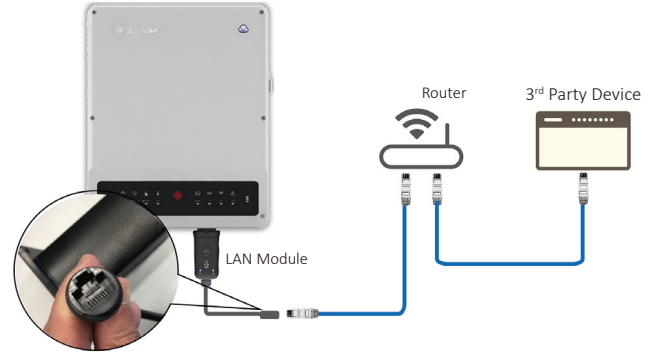
## ● Configuration
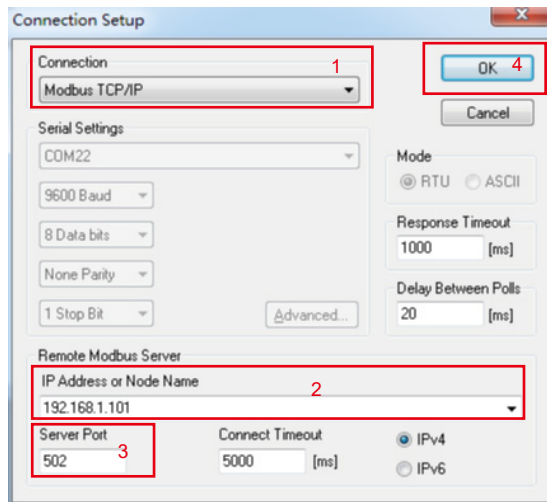
1. Set the connection to "Modbus TCP/IP"

2. Set the IP address,make sure the IP address of the inverter and third-party device under the same segment.

3. Set the server port to "502"

4. Click "OK"

**Note:**

1. For network connection, please follow the *LAN Module/Wifi+Lan Module Installation* Manual of GoodWe.

2. This instruction could be updated without notice as the solution could be modified.

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