DuoCOM Module Introduction
Wi-Fi /LAN 2 in 1

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SOLINTEG ACADEMY

INTEGRATE SOLAR INTELLIGENTLY

Description

ABOUT DUOCOM

DuoCOM is a monitoring device that combines two ways of communication including Wi-Fi and LAN offering convenient configuration and reliable communication for the solar system.

Our easy-to-use DuoCOM can enhance your Solinteg's inverter data monitoring, save your time on the configuration and enhance the reliability of tracking your installation's energy production.

Wi-Fi/LAN 2 in 1

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Key Parameters

Wi-Fi 20M
Communication distance
LAN 100M

Plug and Play
USB 3.0
Installation

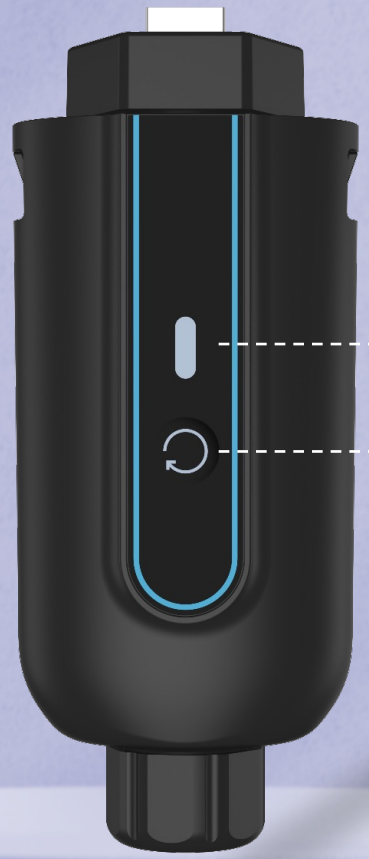
1Minute
Data transmission interval
Variable

IP 65
Suitable for indoor & outdoor

Modbus TCP
Communication with server
Modbus RTU

-30 ~ 75℃
Wide operation temperature

Appearance



Off
Connection is abnormal.

Slow Flash
The dongle isn't connected to the router.

Quick Flash
The dongle is connected to the router but not connected to the server.

On
The dongle is working properly.

Restart/Reset(configuration will be cleared)
Press the button for less than 5s to restart the dongle.
Press the button for more than 5s to reset the dongle.

Highlights

Reliability
Integrate Wi-Fi and LAN two communication methods offering higher data transmission reliability

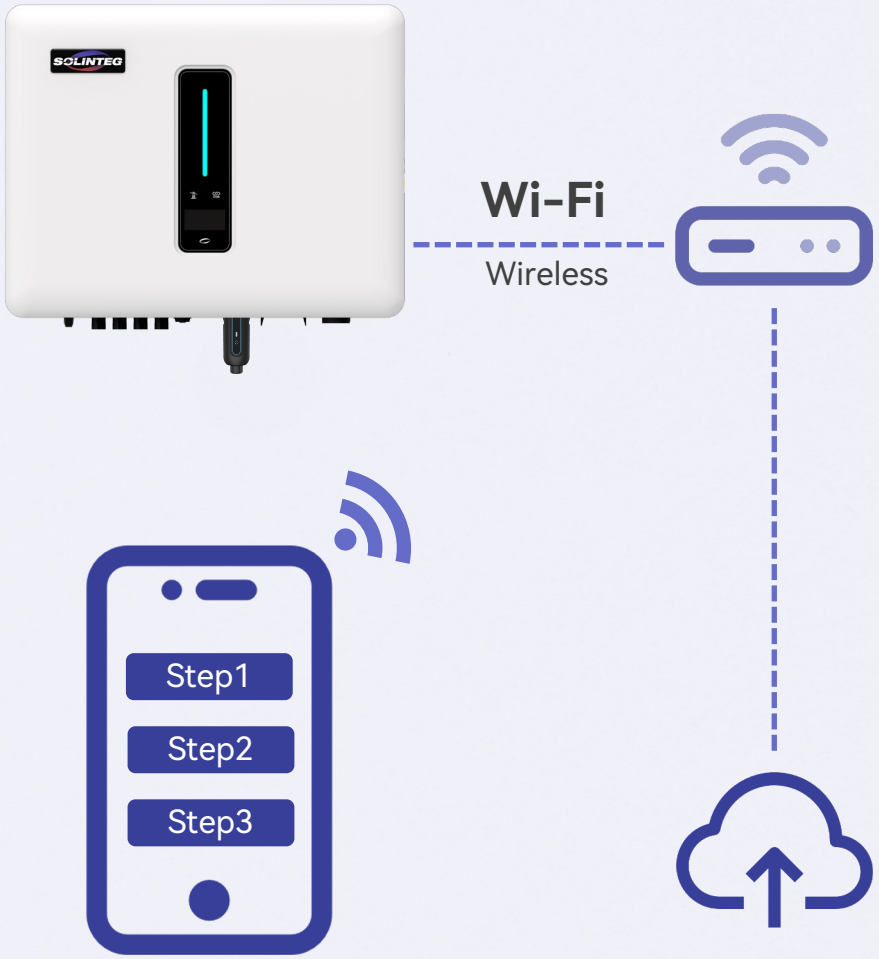
Data Security
Data encrypted to ensure your personal generation data security

Easy to use
Plug-and-play connectors for quick installation, and free of configuration save your time

Multi-communication
Support easy communication with 3-rd party devices and platforms via Modbus TCP and Modbus RTU communication

Wi-Fi/LAN Auto Detect

No need configuration when router DHCP is enabled



Need simple configuration

Wi-Fi/LAN Auto Switchover

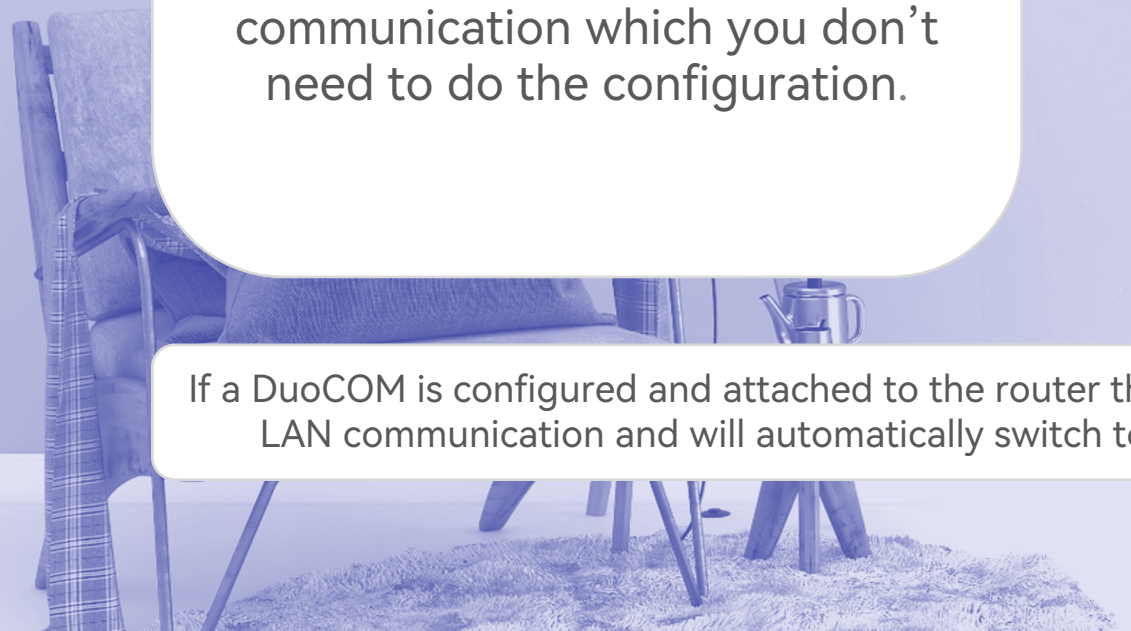
LAN

If there's an ethernet cable inserted into the DuoCOM dongle, the inverter will use LAN communication which you don't need to do the configuration.

5MIN
AUTO

Wi-Fi

If there's **no** ethernet cable inserted into the DuoCOM dongle, the inverter will use Wi-Fi communication which will take a few steps for the configuration.



If a DuoCOM is configured and attached to the router through WiFi and LAN at the same time, the dongle will first use the LAN communication and will automatically switch to WiFi if the LAN communication fails for more than 5 minutes.

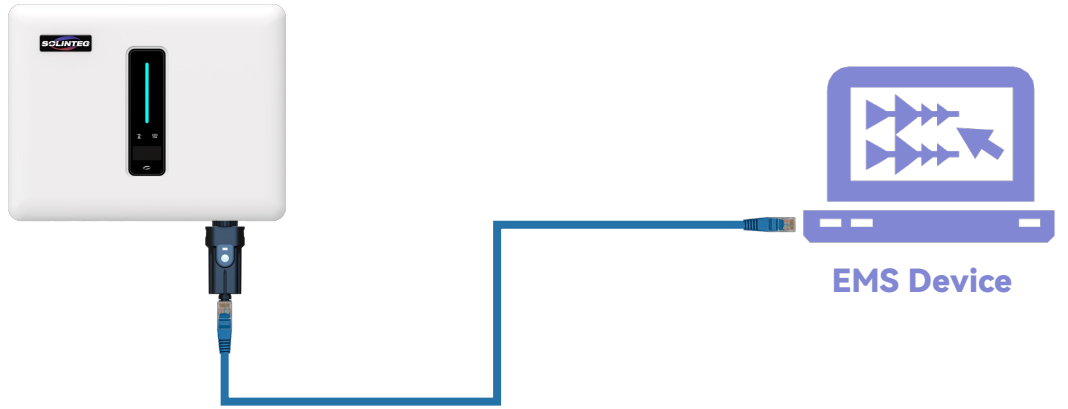
Modbus TCP Application

MODBUS/TCP is a simple derivative of the MODBUS family of communication protocols for managing and controlling automation equipment. MODBUS TCP uses TCP/IP and Ethernet to transmit MODBUS messages between sites, and the communication messages are encapsulated in Ethernet TCP/IP packets.

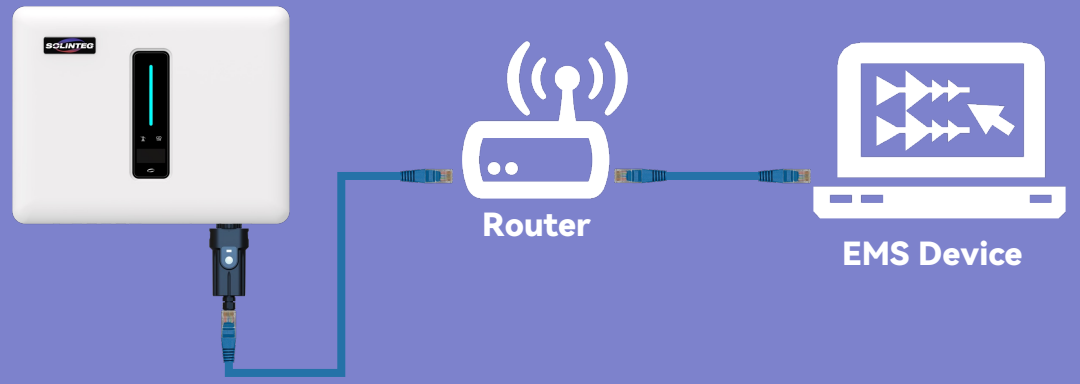
There are two methods to realize the communication between the inverter to EMS device through Modbus TCP:

1. Direct connection
2. Indirect connection (transfer through the router)

Method 1. Connect the DuoCOM to the EMS device directly



Method 2. Connect the DuoCOM to the EMS device through router



Why to Choose DuoCOM

Reliable
WiFi or LAN communication automatically switchover if one fails for 5 minutes

Easy to install
Everything will be done with just a plug and play

Extendable
Modbus TCP and RTU allow 3rd party EMS device connection for more possibilities

Cost Saving
No need to store two kinds of modules for meeting different customer demands

Simple
One dongle for all application scenarios, make everything simple

THANK YOU

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