

R2MD & DuoCom Comparison

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CONTENTS

1

Appearance
Compare

2

Communication
Structure/Method
Compare

3

Function
Compare

4

Applicable
Inverters
Compare

5

Q & A

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1-Appearance compare



GEN1 DuoCom Type 1

A little bit shorter on the end connector
and no barcode on the front side



GEN1 DuoCom Type 2

No barcode on the front side



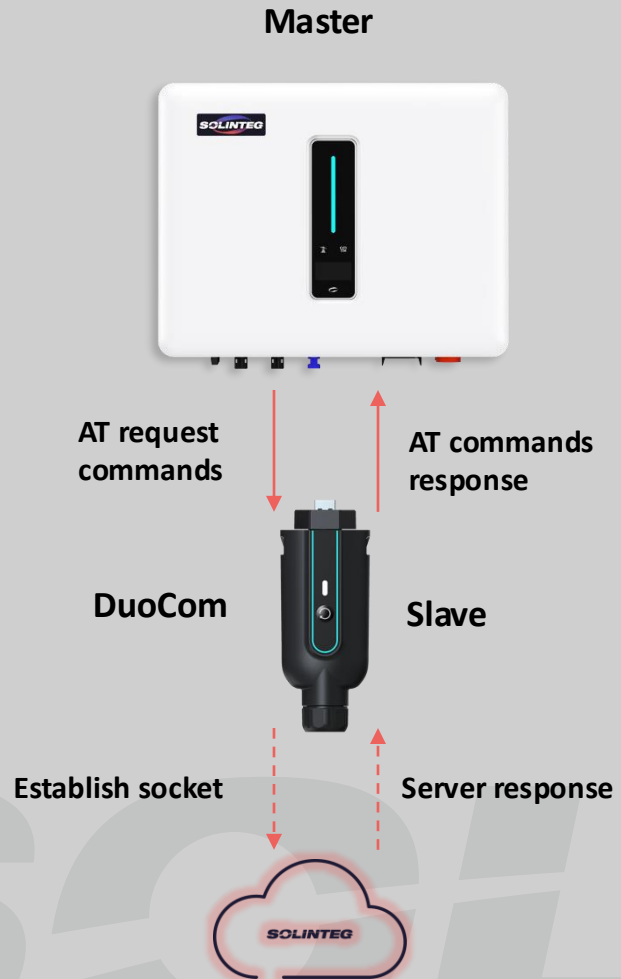
R2MD

There's a barcode with SN on the front side

2-Communication structure compare

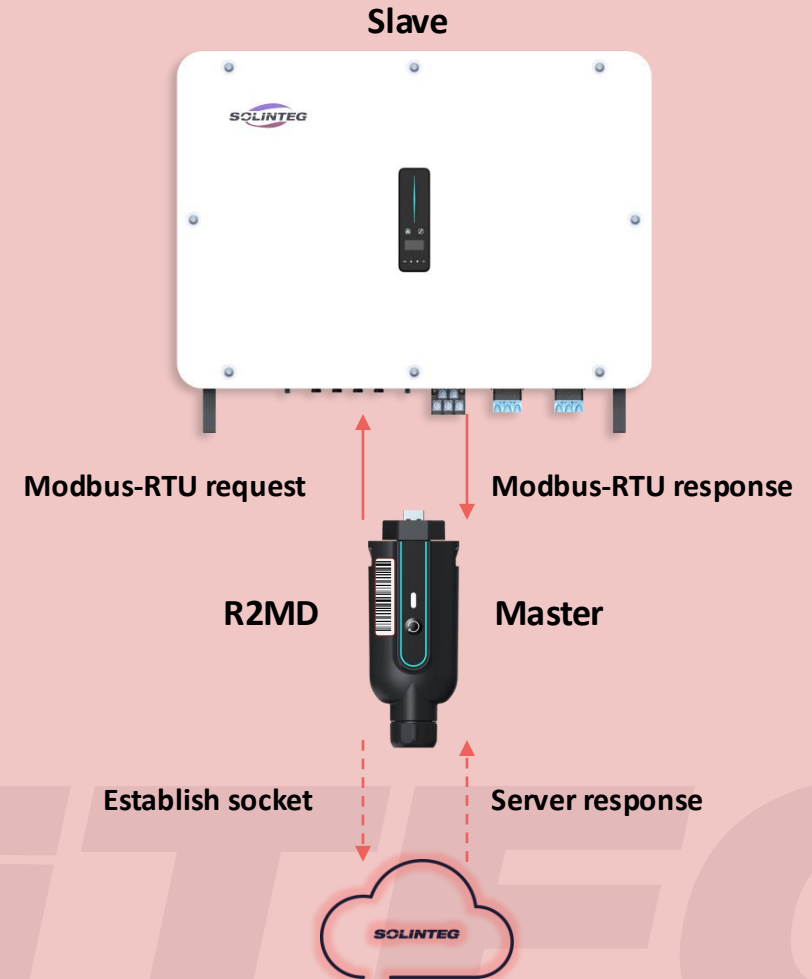
Data transmission rate: **115200bps**

Inverter communication structure: **AT Command**



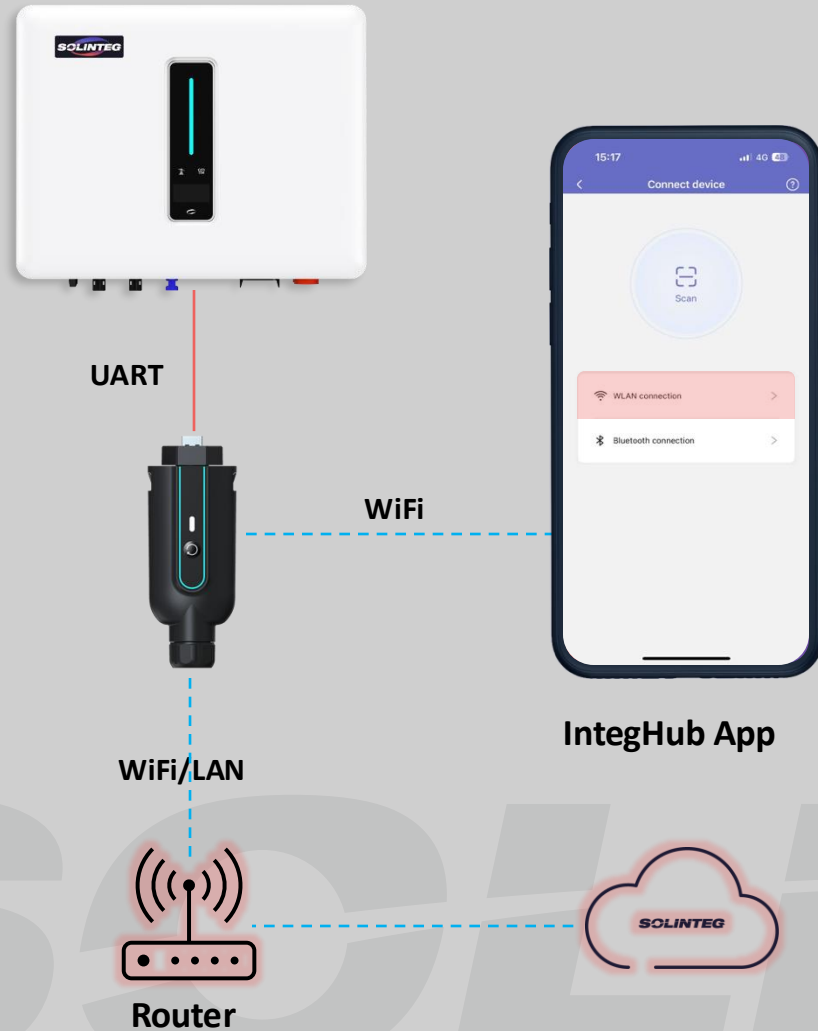
Data transmission rate: **115200bps**

Inverter communication structure: **Modbus RTU**



2-Communication method compare

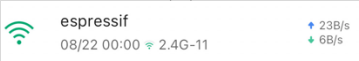
Supported communication: **WiFi/LAN**



Supported communication: **WiFi/LAN/BLE**



3-Function compare

Function name	 DuoCom	 R2MD
Dongle to App communication	WiFi	Bluetooth
Dongle to router communication	WiFi/LAN	WiFi/LAN
ModbusTCP over WiFi local network	✕	√ (FW: V03 and above)
ModbusTCP over Lan local network	√	√
mDNS service	✕	√ (FW: V03 and above)
MQTT	✕	Expected in Q4 2025
Use dongle SN as the hostname of WiFi	✕	√ (FW: V03 and above)
		
Offline data function	√ (14days)	√ (14days) (R2MD FW: V03 and above) (Gen2 Inverter FW: V05 and above)

3-Function compare-mDNS service

What is the mDNS service?

mDNS (Multicast Domain Name System) is a network service based on the Domain Name System (DNS) protocol that enables devices to discover and communicate with each other on a local network, typically a Local Area Network (LAN), without requiring a connection to a central DNS server.



V03 and above

mDNS service key requirements:

R2MD dongle and 3rd-party EMS devices must be connected on the same local network.

Service type: **_tcp._tcp**

Domain: **.local**

Port: **5353**

What are the benefits of the mDNS service?

If customers connect a 3rd-party EMS to the R2MD dongle via the Modbus TCP protocol, with the mDNS service, the dongle can automatically recover the connection to the EMS device even if the IP address of the dongle is changed.

How to check the IP address of the R2MD dongle?

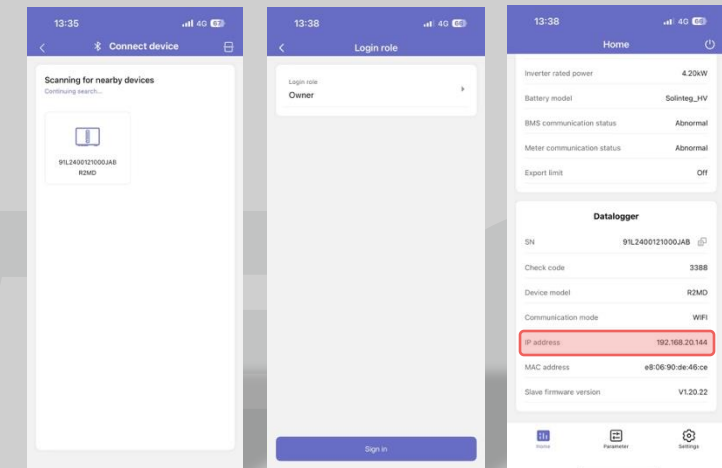
Preparation:

R2MD dongle / Inverter / IntegHub App



Steps:

- Insert the dongle into the inverter that supports R2MD.
- Power on the inverter
- Open the IntegHub App on the phone (Bluetooth enabled)
- Click “Device direct connection” on the App
- Select “Bluetooth” communication
- Select the right “Inverter” from the list
- Select “Owner” or “Installer” and log in to view



4-Applicable inverters compare

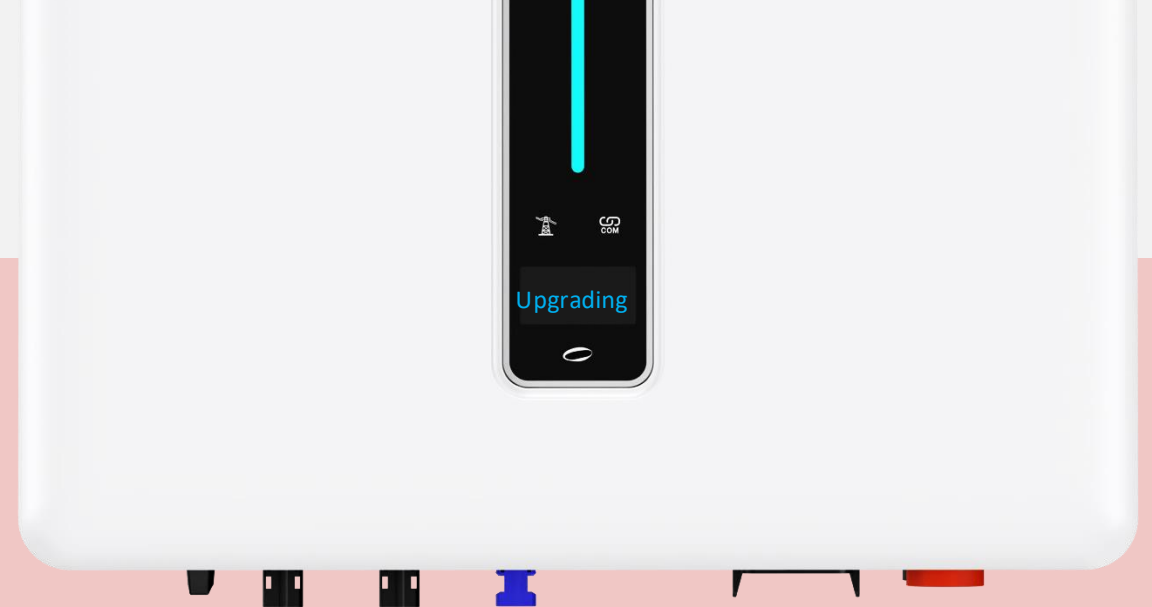
Dongle model	Generation 1 inverters		Generation 2 inverters	
	Inverter model	Firmware requirement	Inverter model	Firmware requirement
 DuoCom	MHS3-8K MHT4-20K MHT25-50K	No firmware requirement		
	OGS1.5-3.3K OGS3.6-6K OGT5-25K	No firmware requirement		
 R2MD	MHS3-8K MHT4-20K MHT25-50K	ARM07 and above (Expected to be released in Oct. 2025)	M2HS3-6K M2HT25-50K Other upcoming Gen 2 inverters	No firmware requirement
	OGS1.5-3.3K OGS3.6-6K OGT5-25K	In the medium-term plan, firmware hasn't been confirmed		

5-Q & A

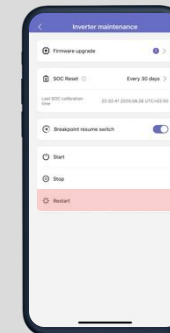
How to use the R2MD on the Gen1 hybrid inverters?

01

Upgrade the **ARM** firmware of the **Gen 1** inverter to **V07 or above**



Restart the inverter after the firmware upgrade succeeds.
Method 1: Follow the inverter display operation instructions from the user manual to restart the inverter by selecting "Restart".
Method 2: Use the IntegHub App to restart the inverter.



02

03

Then the Gen1 hybrid inverter can identify the R2MD dongle, and now you can configure the dongle by following the dongle configuration instructions from the user manual or configuration videos on YouTube from the SolintegAcademy.



Click to jump to the video

SolintegAcademy

5-Q & A

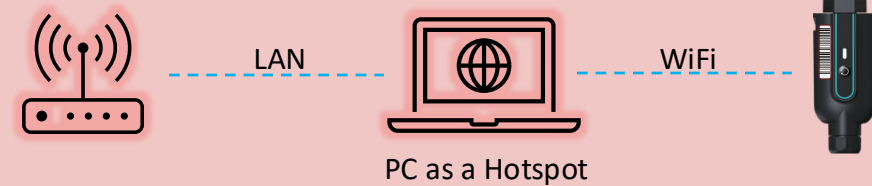
What are the common scenarios for connecting to the same local area network?

01

The inverter and WiFi dongle are connected to the same network



Connect the laptop to the router through an network cable and enable the laptop hotspot WiFi hotspot, dongle connects to the hotspot of the laptop(in this scenario, the computer acts as a router).



02

03

When the laptop and the dongle are connected directly using a network cable, and both are configured with static IP addresses within the same subnet. They become part of the same local area network (LAN)



THANK YOU

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