

EXC-COM08E 4G Module User Guide

1. Summary

EXC-COM08E 4G Communication Module (hereinafter referred to as COM08E), a full network 4G DTU, supports China Mobile and China Unicom's 4G network, with a maximum downlink speed of 10Mbps and a maximum uplink speed of 5Mbps.

With powerful hardware performance and rich software functions, this product can be applied to complex industrial scenarios, real-time data monitoring, parameter settings, etc.

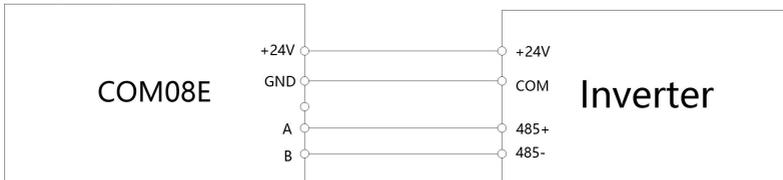
Its appearance is shown in the following figure:



2. Product instructions

2.1 Wiring Instructions

The COM08E module is connected to the Inverter through RS485 interface, and the wiring diagram is shown below:



2.2 Interface Description

◆LED description

LED Label	Illustrate
POWER	Power Indicator
Net	0.2s On -> 1.8s Off: Searching net status 1.8s On ->0.2s Off: Sdandby status 0.125 On -> 0.125 Off: Normal network communication status
LinkA/LinkB	On: Socket Channel communication established normally Off: Socket Channel communication not established
Reload	Module reset button

◆Instructions for wiring terminals

Name	Description
+24V	9~30V DC Volt input
GND	Gnd
GND	Gnd
B	RS458- signal
A	RS458+signal
USB-C	Type-C interface. Used to upgrade firmware of module

2.3 Product Specification

Item	Specification
Transmission power	LTE-TDD: Class3(23dBm+1/-3dB)
	LTE-FDD: Class3(23dBm+-2dB)
Receiver sensitivity	FDD B1: -99dBm (10M)
	FDD B3: -99dBm (10M)
	FDD B5: -99dBm (10M)
	FDD B8: -99dBm (10M)
	TDD B34: -100dBm (10M)
	TDD B38: -100dBm (10M)
	TDD B39: -100dBm (10M)
	TDD B40: -100dBm (10M)
	TDD B41: -100dBm (10M)
LTE	Max support non-CA CAT1
	Support 1.4 ~ 20MHz RF broadband
	LTE-FDD: Maximum uplink speed 5Mbps, Maximum downlink speed 10Mbps
	LTE-TDD: Maximum uplink speed 4Mbps, Maximum downlink speed 6Mbps
Collocation method	Mini USB (AT command method)
	Communication: Baudrate 115200 bps, None, 8bits
SIM Card interface	Nano SIM(1.8V/3V)
Size	84*91*29mm
Operation temperature	-40 ~ 85°
Save Environment	-45 ~ 105°C, 5 ~ 95% RH (No Condensation)
Input Voltage	9~30V
Working current	~220mA

3、 Configuration instructions

After the wiring is completed, the COM08E module and frequency converter need to complete some configurations in order to communicate properly.

The COM08E module is mainly used for setting network parameters and serial port parameters. When setting, the "RCS" distribution network tool is required, which can be obtained from our technical personnel.

Configuration process:

- 1) Connect the module to the Inverter and power it on.
- 2) Open the RCS mobile app, add the 4G module device, enter the **MAC** address, and you can bind the module to the app.



3)The MAC address is on the shell. example: **G20240600005**



4) Process of adding devices

