CM-WIFI/NET/GPRS/RFM Module User Manual

CM-WIFI/NET/GPRS/RFM are compact and powerful network modules developed by Coolmay. It transparently transmits network data packets and RS232/RS485 interface data.

1. **CM-WIFI**: 300MW transmission power, easy to cover 100 meters of site, can realize wireless. Programming/debugging/monitoring in any corner .
2. **CM-NET**: Ethernet access via RJ485 standard interface for remote programming/debugging/monitoring.
3. **CM-GPRS**: Quad-band module is universal, Support Mobile / Unicom GPRS 2G network, adopts MICRO SIM card, to realize remote programming/debugging/monitoring, support SMS data sending and receiving.
4. **CM-RFM:** Highly integrated half-duplex micro-power wireless data high-performance RF module, serial device can easily achieve communication with multiple serial devices/computers (upper computer) in a long distance.
5. Completely replaces wired cable, communication between serial devices (PLC/HMI /instrument, etc.) and computers (host computer) or serial ports can be realized.
6. Cross-regional connectivity, easily control serial devices (PLC/HMI/instrument, etc.) remotely at home or office.
7. More convenient if used together with Coolmay PLC(Control via APP accepted).

Product Features

Network module specifications

Product	CM-WIFI	CM-NET	CM-GPRS
Frequency range	2.412GHz-2.484GHz	120MHz	850/900/1800/1900MHz Quad Band
Network standard	802.11 b/g/n	LAN Ethernet 10/100Mbps	GSM/GPRS/EDGE
Series rate	300bps~460800bps	2400bps~921600bps	2400bps~921600bps
Network type	STA/AP/STA+AP	10/100Mbps Ethernet port	GSM/GPRS/EDGE
Network protocol	IPV4 , TCP/UDP/HTTP	IPV4 , TCP/UDP	TCP/UDP/DNS/HTTP
Transmitted power	802.11b: +16 +/-2dBm	Cable transmission	GSM900 class4(2W)
	802.11g: +14 +/-2dBm		DCS1800 class1(1W)
	802.11n: +13 +/-2dBm		
User configuration	Web	Configuration software / built-in web page	Serial port/web/message AT command
Interface type	SMA	Rj45	SMA
Wiring	Power supply adopts 3.50 pluggable terminals	Power supply adopts 3.50 pluggabel terminals	Power supply adopts 3.50 pluggabel terminals
	Rs485 adopts 3.81 pluggable terminal	RS232、RS485 adopt 2.54 Press-type quick connection terminal	RS485 adopts 3.81 pluggable terminals
Insatallation	Standard rail mounting , can be mounted on NS35\7.5 or NS35 guides		
Data interface	RS232、RS485		
Dimension	90*60*32mm		
Woking voltage	DC5V ~DC30V		

Product	CM-RFM
Frequency range	430-450MHz
Network standard	GFSK
Series rate	1200bps~115200bps
Network type	150KHz
Air transmission rate	1-100Kbps
Transmitted power	Max 20dBm(100mw)
	9 power levels adjustable
Receiving sensitivity	-114dBm(@10Kbps, dev=25KHz, BER<0.1%)
Buffer Space	Double 256bytes
Transmission distance	1-2kilometer @10Kbps, 20dBm, open ground
Wiring	Power supply adopts 3.50 pluggable terminalo
	RS485 adopts 3.81 pluggable terminals
Installation	Standard rail mounting , can be mounted on NS35\7.5 or NS35 guides
Data interface	RS232、RS485
Dimension	90*60*32mm
Working voltage	DC5V ~DC30V

TIPS

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—— Please read carefully the related manuals before using our products, and use this product under the environmental conditions specified in this manual

1. Power on after confirmed the voltage (24VDC, >18W) and right wiring to avoid damage.
2. Tighten the screws or the rail while mounting the product to avoid falling off
3. Avoid wiring or plug the cable with electricity, or it is easy to cause electric shock or circuit damage. When the product emits odor or abnormal sound, please immediately switch off the power. While processing screw holes or wiring, do not drop the metal chips and wire head into the ventilation hole of the controller, which may cause product failure and dis-operation.
4. Do not tie power cables and communication cables together or close and keep them at a distance of 10cm or more. Strong and weak currents need to be separated and correctly grounded. In severe interference situations, input and output cables of the communication and high-frequency signals should use shielded cables to improve anti-jamming performance. The grounding terminal FG on this unit must be properly grounded to improve the anti-interference ability
5. The COM of the binary input/output (transistor) is common cathode.
6. Please do not disassemble the product or change the wiring. Or it will possible to cause breakdown, malfunction, loss, or fire.
7. While installing or disassembling the product, ensure to turn off all power. Or it may cause malfunction and breakdown.

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