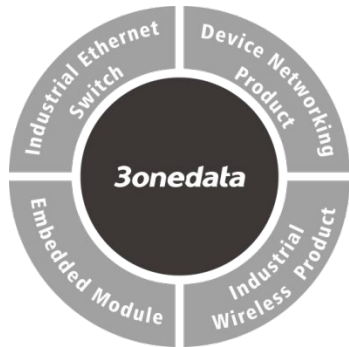


IMF204-2F Series Ring Network Serial to Fiber MODEM Quick Installation Guide



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【Package Checklist】

Please check whether the package and accessories are intact while using the device for the first time.

- | | |
|-------------------------|--------------------------------------|
| 1 Serial to fiber MODEM | 2 Quick installation guide |
| 3 Lug x2 | 4 Power line (AC standard feature) |
| 5 Warranty card | 6 Certification |

If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

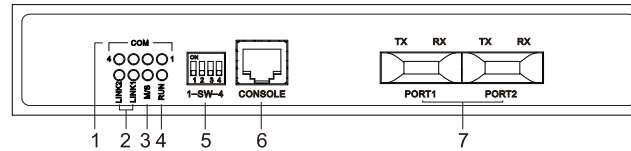
The products of this series are industrial unmanaged ring network serial to fiber MODEM, Models are as follow:

Model I. IMF204-2F-4DI(RS-485)-P(12~48VDC) (2 fiber interfaces + 4 RS-485 serial ports, 12~48VDC)

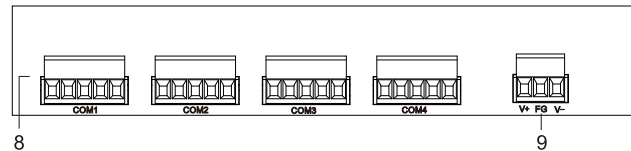
Model II. IMF204-2F-4DI(RS-485)-P(100~240VAC) (2 fiber interfaces + 4 RS-485 serial ports, 100~240VAC)

【Panel Design】

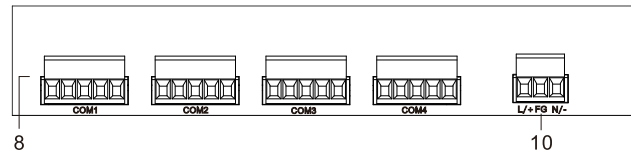
➤ Front View



➤ Rear View



Model I

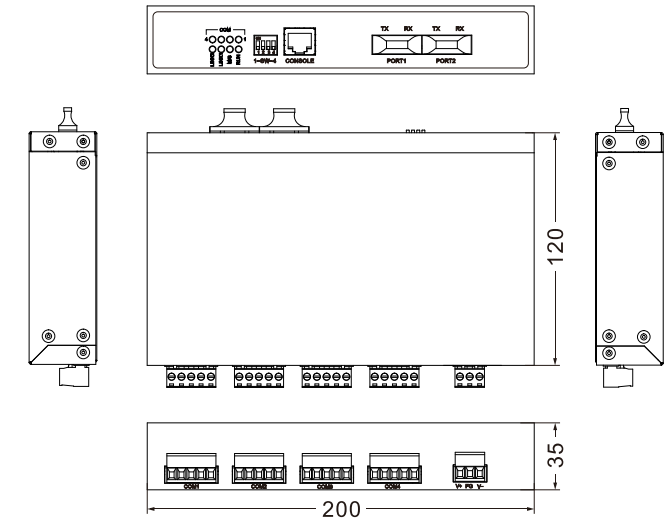


Model II

1. Serial port transmitting and receiving data indicators
2. Fiber port connection status indicator
3. Master/Slave device status indicator
4. Running status indicator
5. DIP switch
6. Console port
7. Fiber interface
8. RS-485 serial port
9. Terminal block of 12~48VDC power supply input
10. Terminal block of 100~240VAC power supply input

【Mounting Dimension】

Unit: mm

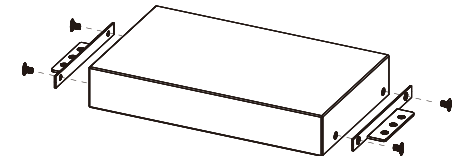


Note before mounting:

- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Wall-mounted Device Mounting】

Step 1 Adopt a M3 screw to install the left/right mounting board on the device backboard.

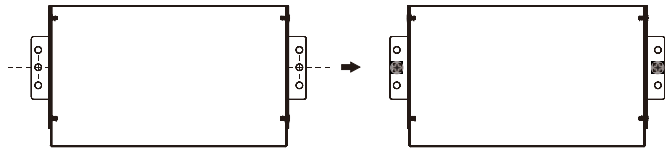


Step 2 On the wall of device mounting, place the device on the wall for reference or refer to the mounting dimension to mark two screw positions.

Step 3 Attach the equipment to the marked wall and

tighten it with M4 screws to the marked position.

Mounting ends.



【Disassembling Device】

- Step 1 Device power off.
- Step 2 Hold the equipment steady and unscrew the screw on the wall
- Step 3 Take out the device, disassembling ends.

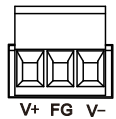


Note before powering on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug contact and power on.
- Power OFF operation: first unpin the power plug, then remove the power line, please note the operation order above.

【Power Supply Connection】

➤ 12~48VDC power supply



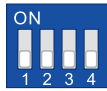
Model I provides 3-pin 5.08mm pitch industrial terminal blocks, in which V+ and V- are DC input. FG is the shell or grounding. The power supply supports non-polarity connection, and the equipment can still work normally after reverse connection. Voltage range: 12~48VDC.

➤ 100~240VAC Power Supply



Model II provides 3-Pin 5.08mm pitch industrial terminal blocks, in which L/+ and N/- are AC input. FG is the shell or grounding. Supports 220 VAC power supply input. Voltage range: 100~240VAC.

【DIP Switch Settings】



The device provides 4 pins DIP switch for function setting, in which “ON” is the enabled end. DIP switch definition and operation method are

as follows:

DIP	Definition	Operation
1	Master/slave device	Set the DIP Switch to “ON” and the device works as the master device of the ring network; Cancel setting of DIP Switch to “ON” , device works as ring network slave device.
2	Reserved	—
3	Reserved	—
4	Reserved	—

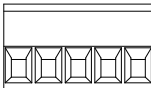


Notes:

- The serial port fiber MODEM should be used in pairs, and the serial port number on the two devices should be one-to-one correspondence.
- If the device passes through the fiber interface group ring, the ring network main station shall be enabled by the DIP switch, that is, one master device and one slave device.

【Serial Port Connection】

➤ RS-485 serial port



The RS-485 serial port provided by the products of this series is 5-pin 3.81mm pitch industrial terminal blocks. The pin definitions

are shown in the table below:

PIN	1	2	3	4	5
RS-485	D+(A)	D-(B)	GND	—	—

【Checking LED Indicator】

The device provides LED indicators to monitor the device

working status with a comprehensive simplified troubleshooting; the function of each LED is described in the table as below:

LED	Indicate	Description
RUN	Blinking	System runs normally
	OFF	The system is not running or running abnormally
M/S	ON	The device works as the master device of the ring network
	OFF	The device works as the slave device of the ring network
LINK (1-2)	ON	Fiber port has established valid network connection
	OFF	Fiber port hasn't established valid network connection
COM(1-4)	Blinking	Serial port is transmitting and receiving data normally.
	OFF	Serial port is transmitting data or receiving data abnormally

【Specification】

Panel	
Fiber port	SC/ST/FC optional, support ring network redundancy
Serial Port	RS-485 serial port, 5-pin 5.08mm pitch terminal blocks
Console port	Reserved
Indicator	Running status indicator, master/slave device status indicator, copper port connection status indicator, serial port indicator
Power Supply	

Model I	Input power: 12~48VDC Access terminal: 3-pin 5.08mm pitch terminal blocks Power supply protection: supports non-polarity
Model II	Input power: 100~240VAC Access terminal: 3-pin 5.08mm pitch terminal blocks
Power Consumption	
Model I	No-load: 2.76W@24VDC Full-load: 2.93W@24VDC
Model II	No-load: 3.5W@220VAC Full-load: 3.7W@220VAC
Working environment	
Working temperature	-10~70℃
Storage temperature	-10~70℃
Working humidity	5%~95% (no condensation)
Protection grade	IP30(metal shell)