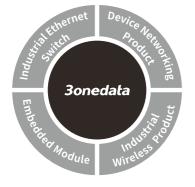


## IGW1111/IGW1112/IGW1114 Series Industrial Modbus Gateway Quick Installation Guide



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#### [Package Checklist]

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

- 1. Modbus Gateway
- 2. Straight-through cable
- 3. DIN-Rail mounting kit
- 4. Certificate
- 5. Warranty card

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

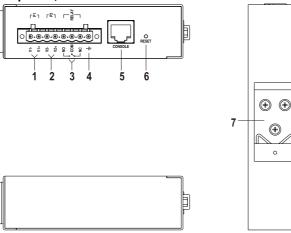
#### [Product Overview]

This series are managed DIN-Rail industrial Modbus gateways. The models are:

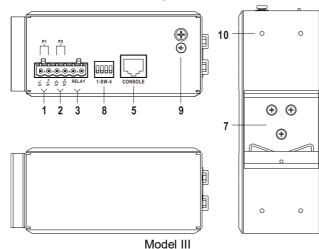
- Model I. IGW1111-1DI(3IN1)-DB (2 100M copper ports + 1 3IN1 serial port + 2 12~48VDC power supplies)
- Model II. IGW1112-2DI(3IN1)-DB (2 100M copper ports + 2 3IN1 serial ports + 2 12~48VDC power supplies)
- Model III. IGW1114-4DI(3IN1)-DB (2 100M copper ports + 4 3IN1 serial ports + 2 12~48VDC power supply)

#### [Panel Design]

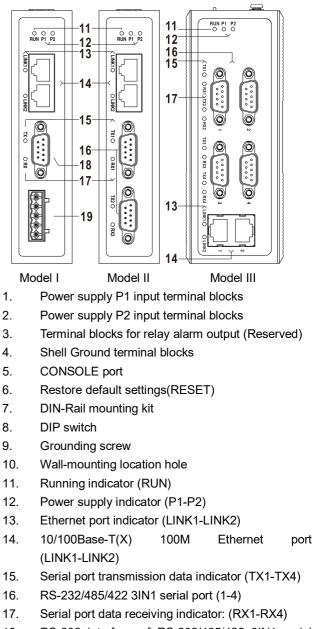
#### > Top view, bottom view and rear view



Model I, Model II

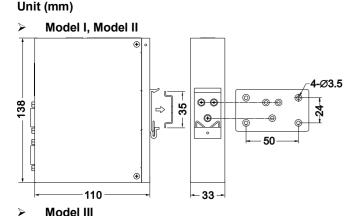


Front view



- 18. RS-232 interface of RS-232/485/422 3IN1 serial port
- 19. RS-485/422 interface of RS-232/485/422 3IN1 serial port

# [Dimension]



30 Ø3.5 0 Ò ·@--0 " **32** ⇒\_⊫ 38 ⊕ ⊕ Ð • 0 -@ <u>\_3.5</u> 110 53

# Note:

The mounting panel on the right of the dimension drawing is an optional accessory, not a standard one.

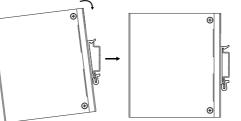
# Notice Before Mounting:

- 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.

### [DIN-Rail Mounting]

The product adopts 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps as follows:



- Step 1 Check whether the DIN-Rail mounting kit that comes with the device is installed firmly.
- Step 2 Insert the bottom of DIN-Rail mounting kit (one side with spring support) into DIN-Rail, then insert the top into DIN-Rail.
  - Tips:

Insert a little to the bottom, lift upward and then insert to the top.

Step 3 Check and confirm the product is firmly installed on DIN-Rail, then mounting ends.

#### [Disassembling DIN-Rail]

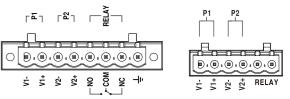
Step 1 Power off device.

Step 2 After lifting the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.

#### $\Delta$ Notice before power on:

- Power ON operation: First insert the power supply terminal blocks into the device power supply interface, then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal blocks. Please pay attention to the above operation sequence.

#### [Power Supply Connection]



Model I, Model II, Model IV, Model V

Model III, Model VI

The device provides 6 or 8-pin 5.08 pitch terminal blocks, power supply occupies 4 pins in the left. It supports two independent DC power supply systems, P1 and P2, which supports nonpolarity function, that the device can work normally after reverse connection. Voltage range: 12~48VDC. Relay is reserved and not enabled.

#### [Console Port Connection]

The device provides 1 program debugging port based on serial port. The interface adopts RJ45 port which can conduct device CLI command management after connecting to PC.

Pin No.	2	3	5
Pin Definition	TXD	RXD	GND

## [Reset Button Setting]

The Model I and Model II of this series provide 1 reset button, press the button for 4-5S then release it to restore factory defaults.

## [DIP Switch Settings]



The model III provide 4-bits DIP switch for function setting, where "ON" is enable valid terminal. The definitions of DIP switch are as follows:

DIP	Definition	Operation
1	Reserved	_
2	Restore Factory Settings	Set the switch to ON and power on again, then set it back.
3	Reserved	_
4	Reserved	—

#### [Serial Port Connection]

# RS-232/485/422 3IN1 serial port, DB9M interface + 5-pin terminal blocks

Model I provides 1 3IN1 serial port, supports RS-232, RS-485 or RS-422 (optional), RS-232 adopts DB9 female, RS-485/422 adopts 5-pin 5.08mm pitch terminal blocks. The pin definitions are as shown in the following table:

0	
PIN	RS-232
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	_

VII		ollowing tab	
	PIN	RS-485	RS-422
	1	D+	T+
	2	D-	Т-
	3	GND	GND
	4		R+
	5		R-

#### RS-232/485/422 3IN1 serial port(DB9M)



The Model II and Model III provide 3IN1 serial port, which supports RS-232, RS-485 or RS-422 (optional). The interface type is

DB9 male and its pin definitions are as follows:

PIN	RS-232	RS-422	RS-485
1	DCD	T+	D+
2	RXD	Т-	D-
3	TXD	R+	-
4	DTR	R-	-
5	GND	GND	GND
6	DSR	-	-
7	RTS	-	-
8	CTS	-	-
9	-	-	-

#### [Checking LED Indicator]

The LED indicators on the front panel of this series device monitor the device working status, which has simplified the overall troubleshooting process. the function of each LED is described in the table as below:

LED	Indicate	Description
	ON OFF	PWR is connected and running
P1-P2		normally
P1-P2		PWR is disconnected or running
	OFF	abnormally
	Blinking	The system is running normally
	055	The system is not running or
RUN	OFF	running abnormally
	ON	The system is running
	ON	abnormally
	ON	LAN port has established valid
		network connection
LINK (1-2)	Blinking	LAN port is in an active network
LINK(1-2)	Dilliking	status
	OFF	LAN port hasn't established valid
	011	network connection
		Serial port is not transmitting
TV (1/ 4)	OFF	data or transmitting data
TX (1/-4)		abnormally
	Blinking	Serial port is transmitting data.
		Serial port is not receiving data
RX (1/-4)	OFF	or receiving data abnormally
. ,	Blinking	Serial port is receiving data.

#### 【Logging in to WEB Interface】

This device supports WEB management and configuration. Computer can access the device LAN1 via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

Step 1 Configure the IP addresses of computer and the device to the same network segment, and the network between them can be mutually accessed

Step 2 Enter device's IP address in the address bar of the computer browser.



Step 3 Enter device's username and password in the login window as shown below.

Username	admin
Password	•••••
	Login
Sav	ve username Save password

Step 4 Click "Login" button to login to the WEB interface of the device.



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- In the Dual IP mode, the default IP address of LAN1 is "192.168.1.254", the default IP address of LAN2 is "192.168.8.254".
- The default user name and password of the device are "admin".
- If the username or password is lost, user can restore it to factory settings via device DIP switch or management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

#### [Specification]

Panel

100M copper port	10/100Base-T(X) self-adapting RJ45 port
RS-232/485/422 3IN1 serial port	DB9M interface; RS-232 of 3IN1 serial port of Model I adopts DB9M, and RS-485/422 adopts 5 pins 5.08mm pitch terminal blocks
Console port	CLI command management port (RS-232), RJ45
Indicator	Power indicator, Running status indicator, Network Link/Act indicator, Serial port transmission/receiving state indicator
Power Supply	
Input power supply	12~48VDC, dual power supply redundancy, support non-polarity
Access terminal blocks	6-pin or 8-pin 5.08mm pitch terminal blocks, power supply occupies 4 pins in the left
Power Consumption	
Power Consumption	No-load: 1.3W@12VDC (high temperature) Full-load: 1.6W@12VDC (high temperature)
	1.3W@12VDC (high temperature) Full-load:
Model I	1.3W@12VDC (high temperature) Full-load: 1.6W@12VDC (high temperature) No-load: 1.7W@12VDC (high temperature) Full-load:
Model I Model II	1.3W@12VDC (high temperature) Full-load: 1.6W@12VDC (high temperature) No-load: 1.7W@12VDC (high temperature) Full-load: 2.0W@12VDC (high temperature) No-load: 1.9W@12VDC (high temperature) Full-load:
Model I Model II Model III	1.3W@12VDC (high temperature) Full-load: 1.6W@12VDC (high temperature) No-load: 1.7W@12VDC (high temperature) Full-load: 2.0W@12VDC (high temperature) No-load: 1.9W@12VDC (high temperature) Full-load:
Model I Model II Model III <b>Working Environment</b>	1.3W@12VDC (high temperature) Full-load: 1.6W@12VDC (high temperature) No-load: 1.7W@12VDC (high temperature) Full-load: 2.0W@12VDC (high temperature) No-load: 1.9W@12VDC (high temperature) Full-load: 2.4W@12VDC (high temperature)
Model I Model II Model III <b>Working Environment</b> Working temperature	1.3W@12VDC (high temperature) Full-load: 1.6W@12VDC (high temperature) No-load: 1.7W@12VDC (high temperature) Full-load: 2.0W@12VDC (high temperature) No-load: 1.9W@12VDC (high temperature) Full-load: 2.4W@12VDC (high temperature)