

## Hardware Installation Guide

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Tel: 886-3-5508137  
Fax: 886-3-5508131  
www.atop.com.tw

P/N : 89900584G

## Package Check List

Inside the package you will find the following items:

- Industrial IoT Remote x 1
- 3-Pin Lockable terminal block for power x 1
- 10-Pin I/O terminal blocks x 2
- 5-Pin Lockable terminal block for Serial port x 1 (-TB models only)
- Wi-Fi Antenna x 1 (-W models only)
- Installation Guide with Warranty Card x 1



Never install or work on electrical or cabling during periods of lightning activity. Never connect or disconnect power when hazardous gases are present.



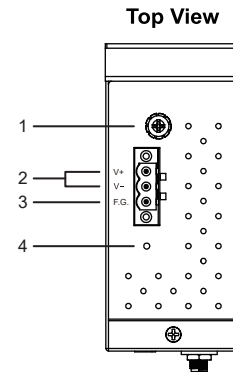
Warning: Hot Surface Do Not Touch. RESTRICTED ACCESS AREA: The equipment should only be installed in a Restricted Access Area.



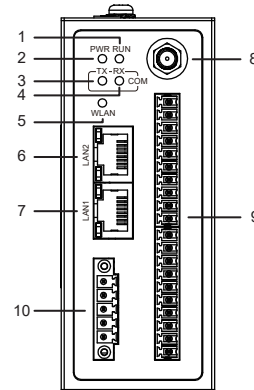
This equipment should be installed indoor and not connect directly with equipment installed outdoor.

## Product Layout

1. Grounding Screw
2. Terminal for Power
3. Frame Ground
4. Reset button

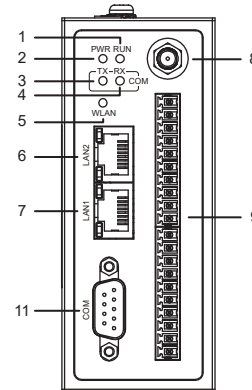


IO5202-TB-W Series Front View



- |                     |                                       |                 |
|---------------------|---------------------------------------|-----------------|
| 1. System Power LED | 5. Wi-Fi function LED                 | 9. I/O Port     |
| 2. System Run LED   | 6. 10/100 Ethernet Port 2             | 10. TB-COM Port |
| 3. COM LED-TX       | 7. 10/100 Ethernet Port 1             | 11. DB-COM Port |
| 4. COM LED-RX       | 8. Wi-Fi Antenna SMA female connector |                 |

IO5202-DB-W Series Front View



## Installation Overview

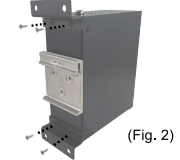
The device's appearance is as in the figure below.

1. Proceed then to fix the antennas to the female RP-SMA connectors deemed to (Fig. 1). You can then choose whether to plug in the I/O ports at this point or do it later depending on the actual location of the device or level of comfort for performing such operation.



(Fig. 1)

2. If you have purchased the wall mount kit, proceed to place the screws on the back of the device as show in (Fig. 2).



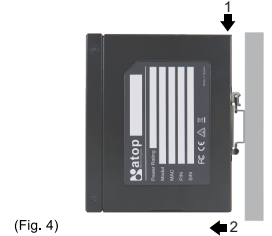
(Fig. 2)

Wall mount Screw spec: M3 \* 0.5P  
Wall mount Screw specification: M3, screw  
Depth: 4mm (Max.); Screws x 4 pcs

3. Once the plate has been firmly put in place, proceed to mount the whole device as shown in (Fig. 3). Proceed to (Fig. 4) if you want to remove the device from DIN-Rail.



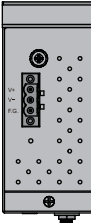
(Fig. 3)



(Fig. 4)

4. Next we can then proceed to connect the device to the LAN (switch or PC, depending on the case), take care on using the RJ-45 connector; after this we can then proceed to the device's settings.

5. Although internal grounding has been done inside, in order to ensure overall maximum performance and protect your device, it is still strongly advised to ground the device properly; hazardous ESD can come into contact and damage your equipment. On the power terminal block, there is a terminal for Frame Ground, you can choose whether to connect it to the grounding or you may opt to connect to the grounding screw next to the terminal block ( the one chosen should be connected at all times ) (Fig. 5).



(Fig. 5)

- The opening to the sides are for the device's heat dissipation please never obstruct or cover them with any objects or try to insert them through it.

## LED Indicators

LED	Color	State	Description
PWR	Green	On	PWR is connected
		Off	PWR is disconnected
WLAN	Green	On	Wireless Module is connected to Wifi
		Blinking	Wireless Module is transmitting/ receiving
		Off	Wireless Module is not connected
RUN	Green	On	System is booted up and running
		Off	System is still booting up or powered off
TX COM	Green	Blinking	COM 1 is transmitting
		Off	COM 1 is not transmitting
RX COM	Green	Blinking	COM 1 is receiving
		Off	COM 1 is not receiving

## Power Requirements

Power input : 12~48 VDC 0.8A MAX

Pin Assignments and Connections

10/100Base-T(X) Ethernet Pinouts

10/100 BASE-T(X)								
Pin	1	2	3	4	5	6	7	8
Signal	Tx+	Tx-	Rx+			Rx-		

9-Pin Male D-sub Connector for RS-232/422/485

Pin	RS-232	RS-422 and 4-wire RS-485	2-wire RS-485
1	DCD	-	-
2	RxD	TxD+	Data+
3	TxD	RxD+	-
4	DTR	-	-
5	SG	SG	SG
6	DSR	-	-
7	RTS	RxD-	-
8	CTS	TxD-	Data-
9	RI	-	-

5-Pin Terminal Block for RS-232/422/485

Pin	RS-232	RS-422 and 4-wire RS-485	2-wire RS-485
1	RxD	TxD+	Data+
2	CTS	TxD-	Data-
3	TxD	RxD+	-
4	RTS	RxD-	-
5	SG	SG	-

Jumper setting for DI/DO ( 8-4-0-0 model only)

Pin	2	3	4	5	6	7	8	9
Signal	DI	DI	DI	DI	DO	DO	DO	DO

To change DI/DO jumper setting, disconnect the device from power, and open the casing for modifying the jumper settings. Please refer to user manual for additional instructions.

2 x 10-Pin Terminal block for I/O

Pin	A	B	C	D	E
1	COM (DI-Wet)	AI0+	COM (DI-Wet)	AI0+	AI0+
2	DI0	AI0-	DIO0	AI0-	AI0-
3	DI1	AI1+	DIO1	AI1+	AI1+
4	DI2	AI1-	DIO2	AI1-	AI1-
5	DI3	AI2+	DIO3	AI2+	AI2+
6	DI4	AI2-	DIO4	AI2-	AI2-
7	DI5	AI3+	DIO5	AI3+	AI3+
8	DI6	AI3-	DIO6	AI3-	AI3-
9	DI7	GND	DIO7	COM (DI-Wet)	GND
10	GND	GND	GND	DI0	GND
11	GND	GND	GND	DI1	GND
12	DO0	GND	GND	DI2	GND
13	DO1	AI4+	Rly0_C	DI3	AO0+
14	DO2	AI4-	Rly0_NO	DI4	AO0-
15	DO3	AI5+	Rly1_C	DI5	AO1+
16	DO4	AI5-	Rly1_NO	GND	AO1-
17	DO5	AI6+	Rly2_C	Rly0_C	AO2+
18	DO6	AI6-	Rly2_NO	Rly0_NO	AO2-
19	DO7	AI7+	Rly3_C	Rly1_C	AO3+
20	GND	AI7-	Rly3_NO	Rly1_NO	AO3-

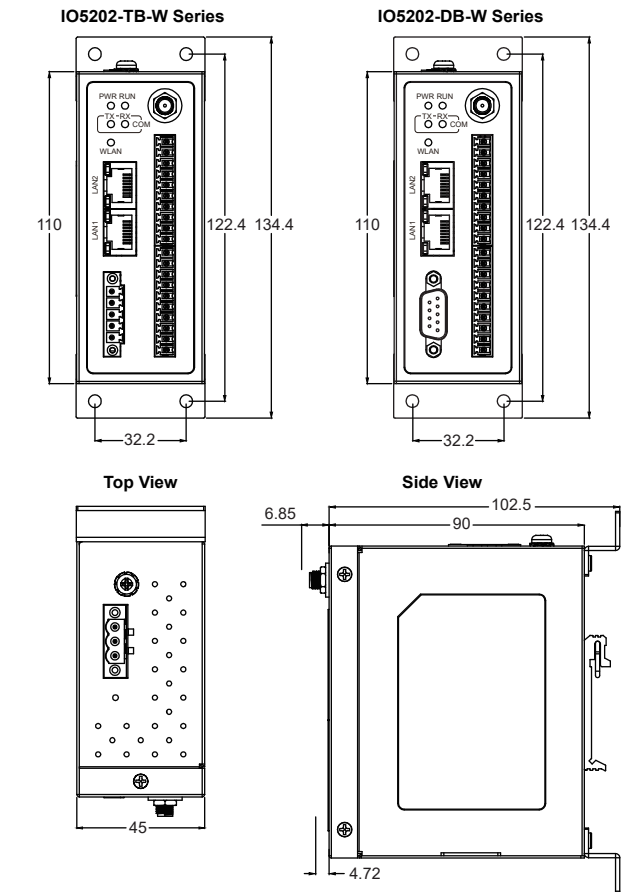
Before connecting the I/O terminal block, please refer to the user manual.

Field Maintenance and Service

If the device requires servicing of any kind, you may need to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.

- Voltage/Power lines should be properly insulated as well as other cables. Be careful when handling the so as to not trip over
- Do not under any circumstance insert foreign objects of any kind into the heat dissipation holes located in the different faces of the device. This may not only harm the internal layout but might cause harm to you as well.
- Do not under any circumstance open the device for any reason. Please contact your dealer for any repair needed or follow the instructions on section of your User's Manual.

Mechanical Dimensions (Unit=mm)



※ The wall mount kit illustrated in this document is for reference only and is not included in the package.

Default Setting

	LAN1	LAN2
Username: admin		
Password: default		
IP address	10.0.50.100	192.168.1.1
Subnet mask	255.255.0.0	255.255.255.0
Default gateway	10.0.0.254	192.168.1.254

Warranty Policy

Warranty Conditions

Products supplied by Atop Technologies are covered in this warranty for sub-standard performance or defective workmanship. The warranty is not, however, extended to goods damaged in the following circumstances:

- (a) Excessive forces or impacts
- (b) War or an Act of God: wind storm, fire, flood, electric shock, earthquake
- (c) Use of unqualified power supply, connectors, or unauthorized parts/kits
- (d) Replacement with unauthorized parts

RMA and Shipping Costs Reimbursement

Customers shall always obtain an authorized "RMA" number from Atop before shipping the goods to be repaired to Atop. When in normal use, a sold product shall be replaced with a new one within 3 months after purchase. The shipping cost from the customer to Atop will be reimbursed by Atop. After 3 months and still within the warranty period, it is up to Atop whether to replace the unit with a new one; normally, as long as a product is under warranty, all parts and labor are free of charge to the customers. After the warranty period, the customer shall cover the cost for parts and labor. Three months after purchase, the shipping cost from the customer to Atop will not be reimbursed, but the shipping cost from Atop to the customer will be paid by Atop.

Limited Liability

Atop shall not be held responsible for any consequential losses from using Atop's product.

Warranty Period

Product Categories	Warranty	Product Categories	Warranty
Ethernet Switches	5 Years	DIN-Rail Power Supplies	3 Years
Wireless		Power Adaptors	1 Year
Serial Device Servers			
Modbus Gateways			
Media Converters		Antennas	
Embedded Device Servers	5 Years	Other Accessories	1 Year
PoE Injectors			
Remote I/O			

The warranty certification will not be effective until an authorized stamp issued by Atop's overseas agents.

Purchase Date: / / (yyyy/mm/dd)

Serial Number



Atop Customer Services and Supports

- Please contact your local dealers or Atop Technical Support Center at the following numbers.
  - + 886-3-550-8137 (Atop Taiwan)
  - + 86-21-6495-6232 (Atop China)
- Please report the defected problems via Atop's Web site or E-mail account
  - Web Site : [www.atop.com.tw](http://www.atop.com.tw), e-mail : [service@atop.com.tw](mailto:service@atop.com.tw)
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