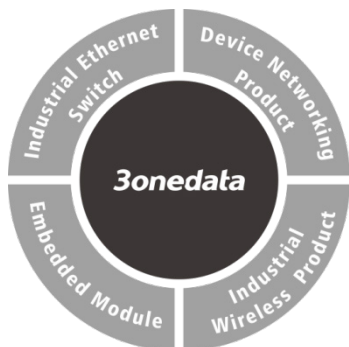


# IAP2300R-4A25-2GT-P12\_48 Industrial Roaming Wireless AP Quick Installation Guide



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## 【Package Checklist】

Please check whether the package and accessories are intact while using the industrial wireless AP for the first time.

- 1 Wireless AP x1
- 2 WIFI antenna x4
- 3 DIN-Rail mounting attachment
- 4 Wall mounting attachment (Optional)
- 5 Warranty card
- 6 Certification

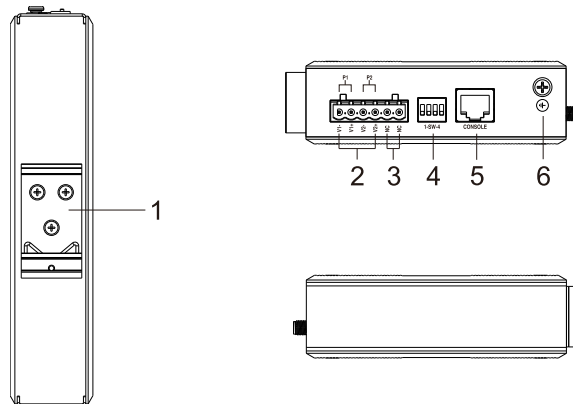
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

## 【Product Overview】

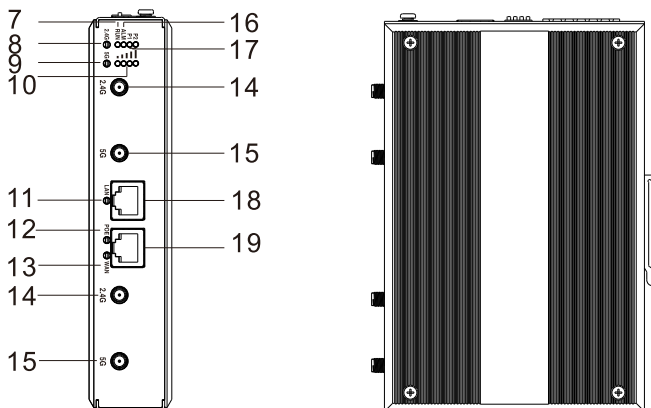
The product is an industrial wireless AP. Its model is IAP2300R-4A25-2GT-P12\_48 (4 WIFI antenna interfaces + 1 Gigabit LAN port + 1 Gigabit WAN port that supports 48VDC PoE power supply).

## 【Panel Design】

### ➤ Rear view, top view and bottom view



### ➤ Front view and Side view

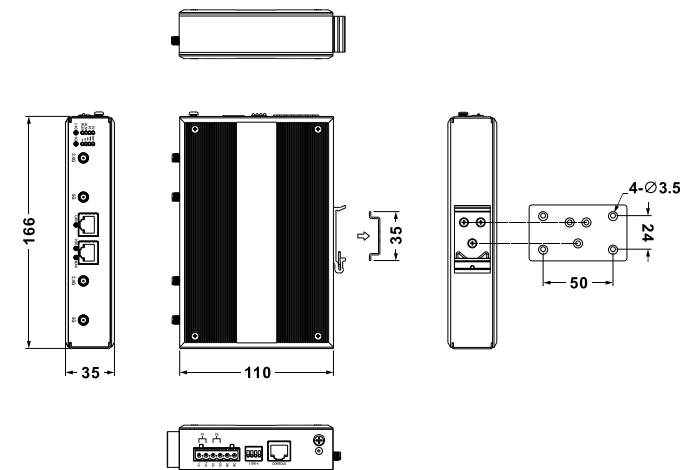


1. DIN-Rail mounting kit
2. Power supply input terminal
3. Reserved
4. DIP switch
5. CONSOLE Port
6. Grounding screw
7. Running indicator RUN
8. 2.4G WLAN indicator
9. 5G WLAN indicator
10. WLAN bridge signal strength indicator
11. LAN port connection indicator
12. PoE connection indicator
13. WAN port connection indicator

14. 2.4G WIFI antenna interface
15. 5G WIFI antenna interface
16. Alarm indicator ALM
17. Power supply indicator P1/P2
18. Gigabit LAN port
19. Gigabit WAN port

## 【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.



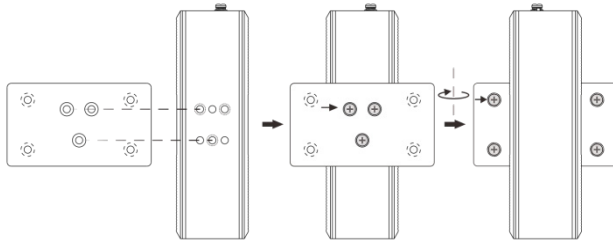
### Note:

This device supports DIN-rail mounting and wall mounting that can be chosen according to needs.

## 【Wall-mounted Device Mounting】

Step 1 Use M3 screws to install the hanging board on the

device backboard.



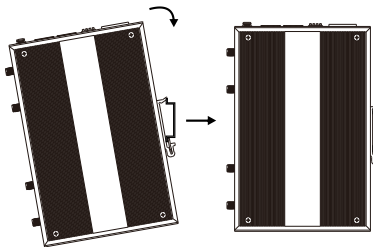
- Step 2 Place the device on the wall as reference or reference installation dimension; mark 4 bolt positions on the wall.
- Step 3 Attach the equipment to the marked wall and tighten it with M4 screws to the marked position. Mounting ends.

### 【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.

### 【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, and 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 Device power off.
- Step 2 After lift 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.

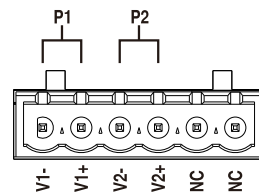


### Note before powering on:

- 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, remove the power plug, and then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

### 【Power Supply Connection】

#### ➤ DC power supply



The device provides 6-pin 5.08mm pitch power supply input terminal blocks, among which power supply occupies the left 4 pins (the right 2 pins are reserved) Supports P1 and P2 two independent DC power

supply systems, when one of the power supplies fails, it could switch to another one immediately to ensure the device power supply is not interrupted. Power supply supports non-polarity and anti-reverse connection. Voltage range: 12~48VDC.

#### ➤ 48VDC POE power supply input

The WAN port of this device supports POE power receiving.

### 【DIP Switch Settings】



The device provides 4 pins DIP switch for function setting, in which “ON” is the enabled end. DIP switches definition as follows:

DIP	Definition	operation
1	Restore factory defaults	Set the switch to ON and power on the device again, then set it back after one minute.
2	Reboot	The device will restart immediately after setting the DIP to ON
3	Reserved	-
4	Reserved	-

### 【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
2.4G/5G	ON	WIFI is running normally
	OFF	WIFI is running abnormally or closed
RUN	ON	The device is powered on or the device is abnormal.
	OFF	The device is powered off or the device is abnormal.
	Blinking	The device is running normally
WLAN	○○○○	All indicators are off, which means the WLAN signal at the opposite end is weak or no signal
	●○○○	Only one indicator is on, which means the WLAN signal at the opposite end is weak
	●●○○	Two indicators are on, which means the WLAN signal at the opposite end is normal
	●●●○	Three indicators are on, which means the WLAN signal at the opposite end is relatively strong
	●●●●	All indicators are on, which means the WLAN signal at the

LED	Indicate	Description
		opposite end is strong
ALM	ON	Restore factory settings alarm
	OFF	No restore factory settings alarm
P1/P2	ON	PWR is connected and running normally
	OFF	PWR is disconnected and running abnormally
WAN/LAN	ON	Copper port has established an active network connection.
	Blinking	Copper port is in a network activity state.
	OFF	Copper port has not established an active network connection.
POE	ON	POE ports receive power supply normally
	OFF	POE is disabled or disconnected

### 【Logging in to WEB Interface】

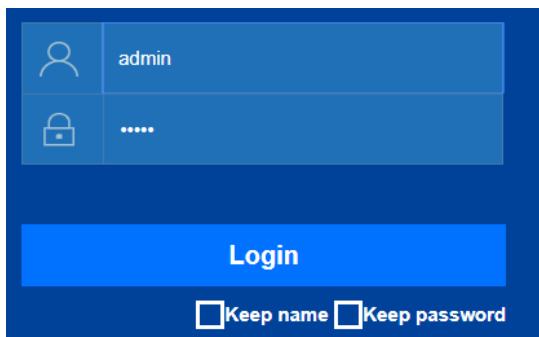
This device supports WEB management and configuration. Computer can access the device via LAN. The way of logging in to device's configuration interface via IE browser is shown as below:

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.

<https://192.168.1.254/>

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



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



#### Note:

- The default IP address of the device is “192.168.1.254”.
- The default user name and password of the device is “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】

Standard	
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.11a/b/g/n, IEEE802.11i, IEEE802.11r, IEEE802.11ac
Panel	
Copper port	<ul style="list-style-type: none"> <li>• 1 10/100/1000Base-T(X) LAN port, RJ45 port</li> <li>• 1 10/100/1000Base-T(X) WAN port, RJ45 port, supports PoE 48VDC power supply input</li> </ul>
Antenna interface	<ul style="list-style-type: none"> <li>• 2 2.4G WIFI antenna interfaces, RP-SMA-K type</li> </ul>

	(Female) <ul style="list-style-type: none"> <li>• 2 5G WIFI antenna interfaces, RP-SMA-K type (Female)</li> </ul>
Indicator	2.4G WLAN indicator, 5G WLAN indicator, running indicator, power supply indicator, alarm indicator, WAN port connection indicator, LAN port connection indicator, WLAN bridging quality indicator, PoE indicator
WIFI Transmission Rate	
802.11n	6.5~300Mbps
802.11b	11/5.5/2/1Mbps
802.11g/a	54/48/36/24/18/12/9/6Mbps
802.11ac	65Mbps~867Mbps
WIFI RF	
2.4G channel	2.401GHz~2.483GHz
5G channel	5.170GHz~5.330GHz, 5.490GHz~5.650GHz, 5.735GHz~5.835GHz
RF power output	23dBm
Modulation scheme	DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM
WIFI Receiving Sensitivity	
802.11n_HT40	-82dBm@MCS0, -64dBm@MCS7
802.11n_HT20	-85dBm@MCS0, -67dBm@MCS7
802.11g/a	-91dBm@6Mbps, -72dBm@54Mbps
802.11b	-93dBm@1Mbps, -87dBm@11Mbps
802.11ac	-84dBm@MCS0, -59dBm@MCS9
WIFI Transmission Power	
802.11n_HT40	23dBm@MCS0, 20dBm@MCS7
802.11n_HT20	23dBm@MCS0, 20dBm@MCS7
802.11g/a	23dBm@6Mbps, 20dBm@54Mbps

802.11b	23dBm@1Mbps, 20dBm@11Mbps
802.11ac	23dBm@MCS0, 20dBm@MCS9
<b>Power Supply</b>	
Input power supply	<ul style="list-style-type: none"> <li>Dual power supply redundancy, voltage range: 12 ~ 48VDC, support non-polarity, anti-reverse connection, built-in overcurrent 2.0 protection</li> <li>48VDC POE power supply</li> </ul>
Access terminal block	6-pin 5.08mm pitch terminal blocks
<b>Power Consumption</b>	
No-load	3.12W@24VDC
Full-load	9.87W@24VDC
<b>Working environment</b>	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%~95% (no condensation)