



## IAP2200PRO-2525-5GT-1D

Rail or wall mounted installation

Industrial grade dual 5G Wi Fi 5 wireless client

- Supports 4-way 5G antenna interface, 5-way Gigabit LAN port, and 1-way RS-485 serial port
- Support client mode, wireless signal conversion to wired signal
- Supports 802.11ac standard, 2 5G frequency bands, with transmission rates up to 867Mbps each
- Support power input 9-48VDC
- Supports wide temperature operation from -20 to 55 °C



## Introduction

---

IAP2200PRO-2525-5GT-1D is a gigabit industrial grade wireless client. This product supports one serial port, allowing serial devices to immediately have networking capabilities and can centrally manage dispersed serial devices through the network. This product provides dual 5G antenna interfaces, gigabit Ethernet ports (LAN), and RS-485 serial ports, supporting rail or wall mounted installation methods, and can meet the needs of different application sites.

The network management system supports client wireless working mode; Supports IEEE802.11a/n/ac wireless technology, with a maximum wireless speed of 1734Mbps for the entire machine; This device supports wireless seamless roaming functionality.

The hardware adopts a fanless, low-power, wide temperature and pressure design. Through strict testing in accordance with industry standards, it can adapt to industrial on-site environments with strict requirements for EMC, and can be widely used in industries such as warehousing and logistics, manufacturing, power, transportation, etc.

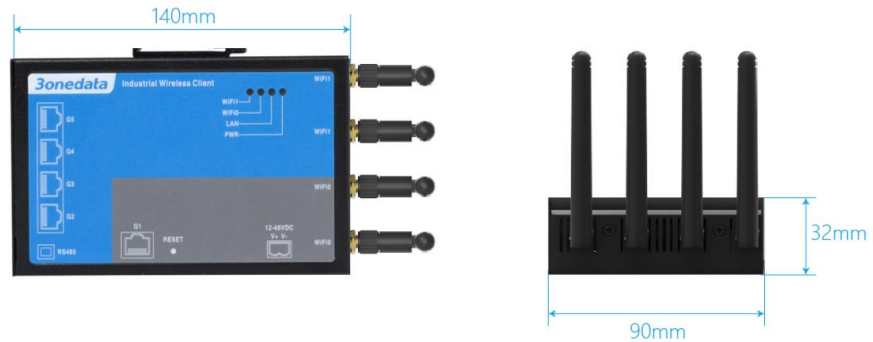
## Features and Benefits

---

- ⦿ Supports client mode
- ⦿ Supports high-speed wireless connection, with a single 5GHz transmission rate of up to 867Mbps
- ⦿ Supports seamless roaming technology for multiple APs
- ⦿ Support WPA/WPA2 wireless encryption method and TKIP/AES encryption algorithm
- ⦿ AC management can specify AC device information to achieve targeted management
- ⦿ WMM can achieve better transmission quality for applications such as voice and video in wireless networks
- ⦿ Independently developed firmware system to ensure long-term stable operation of equipment

## Appearance size

Unit: mm



## Specification

|                                |   |
|--------------------------------|---|
| <b>Standards And Protocols</b> | <p>10Base-T, following IEEE802.3</p> <p>100Base-TX, following IEEE802.3u</p> <p>1000Base-T, following IEEE 802.3ab</p> <p>Wireless LAN, following IEEE802.11a/n/ac</p> <p>Wireless security, following IEEE802.11i</p> <p>Fast roaming, following IEEE802.11r</p> <p>WMM, following IEEE802.11e</p> |
| <b>Working Mode</b>            | Client mode   |
| <b>Radio Frequency</b>         | <p>5180~5320MHz, 5745~5825MHz (China)</p> <p>Frequency range: 4920~6060MHz (local laws and regulations should be followed when using)</p>   |
| <b>Receiving Sensitivity</b>   | <p>-90dBm@VHT20 MCS0 -67dBm@VHT20 MCS8</p> <p>-87dBm@VHT40 MCS0 -62dBm@VHT40 MCS9</p> <p>-84dBm@VHT80 MCS0 -59dBm@VHT80 MCS9</p>  |
| <b>Transmitting Power</b>      | <p>24dBm@VHT20 MCS0 18dBm@VHT20 MCS8</p> <p>23dBm@VHT40 MCS0 18dBm@VHT40 MCS9</p> <p>23dBm@VHT80 MCS0 18dBm@VHT80 MCS9</p>  |
| <b>Interface</b>               | <p>Antenna interface: 4-way 5G antenna interface, RP-SMA-K type (Female)</p> <p>Gigabit Ethernet port: 5-way 10/100/1000Base-T (X) RJ45 port, LAN port</p> <p>Serial port: 1 RS-485 serial port</p>   |

|                             |  |
|-----------------------------|--|
| <b>Antenna</b>              | Omnidirectional antenna with a gain of 5dBi  |
| <b>Source</b>               | 9-48VDC, using 2-position 5.08mm spacing terminal blocks   |
| <b>Work Environment</b>     | Working temperature: -20~55 °C<br>Storage temperature: -40~85 °C<br>Relative humidity: 5%~95% (without condensation)   |
| <b>Mechanical Structure</b> | Shell: IP30 protection level, metal shell<br>Installation: Rail mounted or wall mounted<br>Size (width × high × Depth: 90mm × 32mm × 140mm<br>Weight: 500g (including stand antenna)   |
| <b>Industry Standards</b>   | IEC 61000-4-2 (ESD, electrostatic discharge immunity) <ul style="list-style-type: none"> <li>Air discharge: 8kV</li> <li>Contact discharge: 6kV</li> </ul> IEC 61000-4-5 (Surge, Surge immunity)<br>Ac power cable interface <ul style="list-style-type: none"> <li>wire-to-wire: 1kv</li> <li>Line to ground: 2kv</li> </ul> Signal line interface <ul style="list-style-type: none"> <li>Line to ground: ±1kv (WAN/LAN)</li> <li>wire-to-ground: ±0.5kv (RS485)</li> </ul> Impact: IEC 60068-2-27<br>Free fall: IEC 60068-2-32<br>Vibration: IEC 60068-2-6 |
| <b>Authentication</b>       | CE, FCC, RoHS  |
| <b>Warranty</b>             | 5 years  |



## Ordering Information

| Model                     | 5G antenna interface | Antenna | Gigabit LAN | RS-485 | Source  |
|---------------------------|----------------------|---------|-------------|--------|---------|
| IAP2200PRO-2525-5GT-1D-LV | 4                    | 4*胶棒天线  | 5           | 1      | 9-48VDC |

## Accessory Information

| Type        | Item number | Interface                           | Feeder length | Remarks  |
|-------------|-------------|-------------------------------------|---------------|----------|
| Suction cup | 3005040096  | Cable: RP-SMA-J<br>Sucker: RP-SMA-K | 3m            | Optional |



Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China  
TEL.: +86-755-26702668 ext 835 FAX: +86-755-26703485  
E-mail: ics@3onedata.com  
Website: www.3onedata.com

◀ Please scan our QR code for more details

\*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by 3onedata.