CIAP326-2A25-2D

RS232/485 2.4&5.8GHz Dual Band WiFi 6 Industrial Wireless Client



- 1×RS232 + 1×RS485 + 2×1G Ethernet ports
- Support WIFI6 technology (IEEE 802.11 ax), support dual-band WIFI (2.4 and 5G), AP/STA/AP+STA/bridge modes
- Support fast Wi-Fi roaming, network switching as low as 100ms
- Built-in hardware watchdog, fault self-detection, self-repair, firmware backup and restore functions to ensure system stability without crashing
- Wide voltage input: DC 9-36V, power reverse protection
- Metal housing, IP30-rated housing protection, EMC grade 3
- Support wall mounting, DIN rail mounting, and desktop placement
- --35℃~+70℃ working temperature

Product Description

CIAP326-2A25-2D is a high-performance Wi-Fi 6 industrial wireless client engineered for industrial automation, smart logistics, and other demanding IoT scenarios requiring high-speed, low-latency, and stable wireless connections. The device delivers measured Wi-Fi 6 throughput of up to 800 Mbps and can support more than 8 simultaneous Wi-Fi clients in AP mode, ensuring reliable connectivity for multiple devices.

Equipped with 1 × RS232, 1 × RS485, and 2 × Gigabit Ethernet ports (1 × WAN/LAN configurable + 1 × LAN), CIAP326-2A25-2D supports AP, STA, AP+STA, and bridge modes, allowing flexible deployment in various network topologies. The device integrates dual hardware and software watchdogs, automatic fault detection and recovery, and firmware backup mechanisms to guarantee continuous and stable operation in harsh industrial environments.

Additional features include fast roaming across multiple APs with switching times as low as 100 ms, support for mainstream protocols (TCP, UDP, Modbus, HTTP, MQTT, SNMP), and connectivity to major cloud platforms such as Alibaba Cloud and AWS Cloud. Its compact metal housing is rated IP30 and designed to withstand temperatures from –35°C to +70°C while providing EMC protection.

CIAP326-2A25-2D is ideal for applications such as AGV automated transportation, industrial robots, smart warehousing, medical devices, smart factories, video surveillance, unmanned parking systems, and smart city infrastructure. It supports desktop, wall, or DIN-rail installation, enabling flexible

deployment across diverse industrial scenarios.

Product Features

- Wi-Fi 6 technology (IEEE 802.11ax) with dual-band 2.4 GHz & 5 GHz operation
- AP, STA, AP+STA, and bridge mode support for versatile networking topologies
- Fast roaming: seamless network handover across multiple APs (<100 ms)
- Dual Gigabit Ethernet ports: 1 × WAN/LAN configurable, 1 × LAN
- RS232 and RS485 serial interfaces for easy integration with industrial devices
- Support mainstream industrial protocols: TCP, UDP, Modbus RTU/TCP, HTTP, MQTT, SNMP
- Compatible with cloud platforms such as Alibaba Cloud and AWS Cloud
- Anti-drop mechanism to maintain stable and uninterrupted data transmission
- Wired/STA multi-network intelligent backup ensures continuous connectivity
- Built-in Web interface for remote configuration and monitoring
- Support NTP time synchronization, SNMP management, MAC-IP binding, and access control
- Support heartbeat and registration packets for reliable device-to-server communication
- Fast serial-to-network conversion: UDP, TCP, Modbus, HTTP, MQTT
- Support single-link fast roaming in WLAN deployments with multiple APs
- Metal housing with IP30 protection, robust and durable for industrial use
- Wide operating temperature: –35°C to +70°C
- Wide-voltage DC 9~36V input with reverse-polarity protection
- EMC protection: ESD Level 3, EFT Level 3, Surge Level 3 (IEC61000)
- Built-in hardware and software dual watchdogs for fault detection and automatic recovery
- Firmware backup and restore functions to prevent unexpected downtime
- Support desktop placement, wall mounting, and DIN-rail installation

Technical Specifications

Power	
Power Supply	DC 9~36V
Connection	2-pin terminal blocks
Protection	Reverse polarity protection, surge protection
Working Current	Average: 700mA @12V, max: 2A @12V
Serial port	
No.	1 × RS485, 1 × RS232, can't work simultaneously.
Baud rates	RS232: 1200 ~ 115200bps RS485: 1200 ~ 230400bps
Data bits	7, 8
Stop bits	1, 2
Parity	NONE, ODD, EVEN
Packaging Interval	Range: 1 ~ 3000ms, default: 50ms
Packaging Length	Range: 5 ~ 1500 bytes, default: 1000 bytes
Ethernet Ports	
No.	2 × Ethernet ports: 1 × WAN/LAN (configurable), 1 × LAN
Interface	RJ45, 10/100/1000 Mbps, compliance with IEEE 802.3, auto MDI/MDIX
Protection	1.5KV network isolation transformer protection
Wi-Fi	
Standards & Frequency	IEEE 802.11b/g/n/ac/ax, 2.4GHz & 5.8G
Working Mode	AP/STA/AP+STA/Bridge
Data speed	1201 Mbps (5.8GHz) & 573.5 Mbps (2.4GHz)
MU-MIMO	2 × 2

OFDMA	DL-OFDMA 8(8 users); UL-OFDMA (4 users)
Covering distance	200 meters by line of sight. Actual transmission distance depends on the environment of the site.
Wi-Fi Users	8 +
Antenna	2 × SMA-female
Wi-Fi Roaming	Support
Physical Property	
Casing material	Metal shell, IP30 protection
Dimensions	115×94×29 mm (L×W×H, antenna pedestal, terminal block, and DIN Rail clip are not included)
Installation	Wall mounting, DIN rail mounting, desktop placement
EMC	Surge protection: level 3, IEC61000 ESD protection: level 3, IEC61000 EFT protection: level 3, IEC61000
Operating temperature	-35℃～ +70℃
Storage temperature	-40℃～+125℃
Operating humidity	5% ~ 95% RH, non-condensing
Storage humidity	1% ~ 95% RH, non-condensing
Software Function	
Network protocols	TCP, UDP, HTTP, TLS, MQTT, ARP, DHCP, ICMP, PPPoE, IPv4, DNS, SNMP, NTP
Modbus Gateway	Modbus RTU/TCP protocol conversion, Modbus multi-host polling
IP	DHCP/Static IP
MQTT	Standard MQTT protocol, 16 subscription topics and 16 publish topics
IOT PLATFORMS	AWS IOT, Alibaba cloud

User Configuring	Web console (HTTP)
Others	
Reload	Pinhole reset button
Indicators	1 × RS485, 1 × RS232, 1 × WLAN, 1 × RUN, 1 × PWR
Ground protection	Screw
Certifications	
Regulatory	CCC, CE/RED, RoHS, WEEE, FCC

Dimensions

Unit: mm

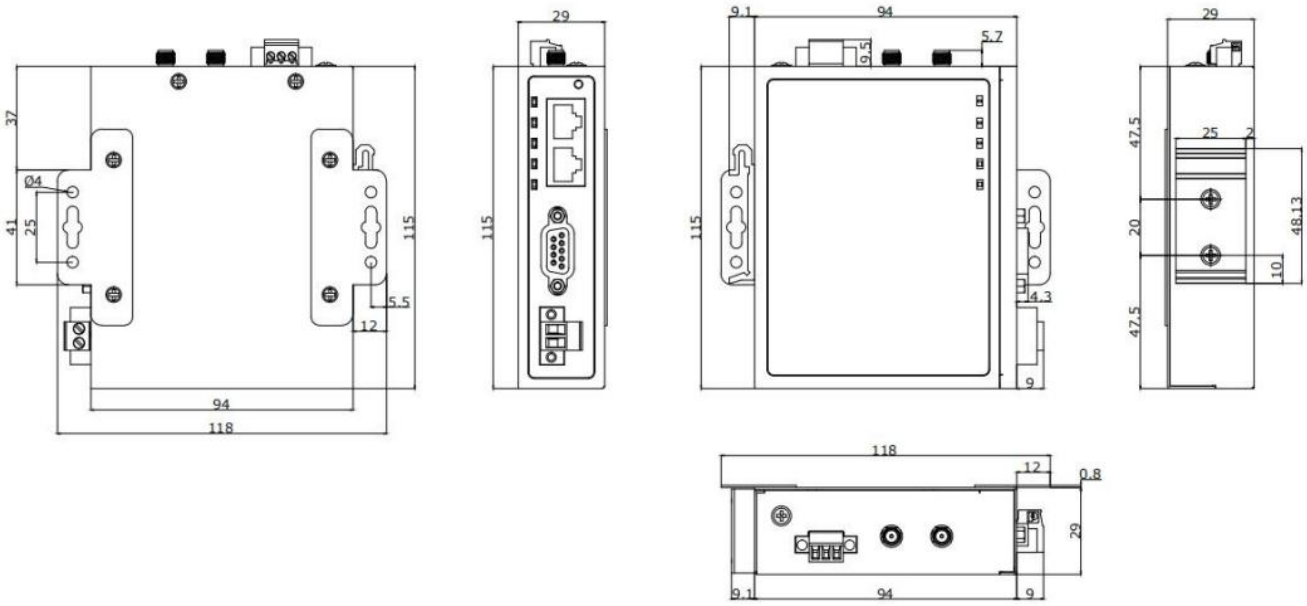


Fig.1 Dimension (With pleural spreading)

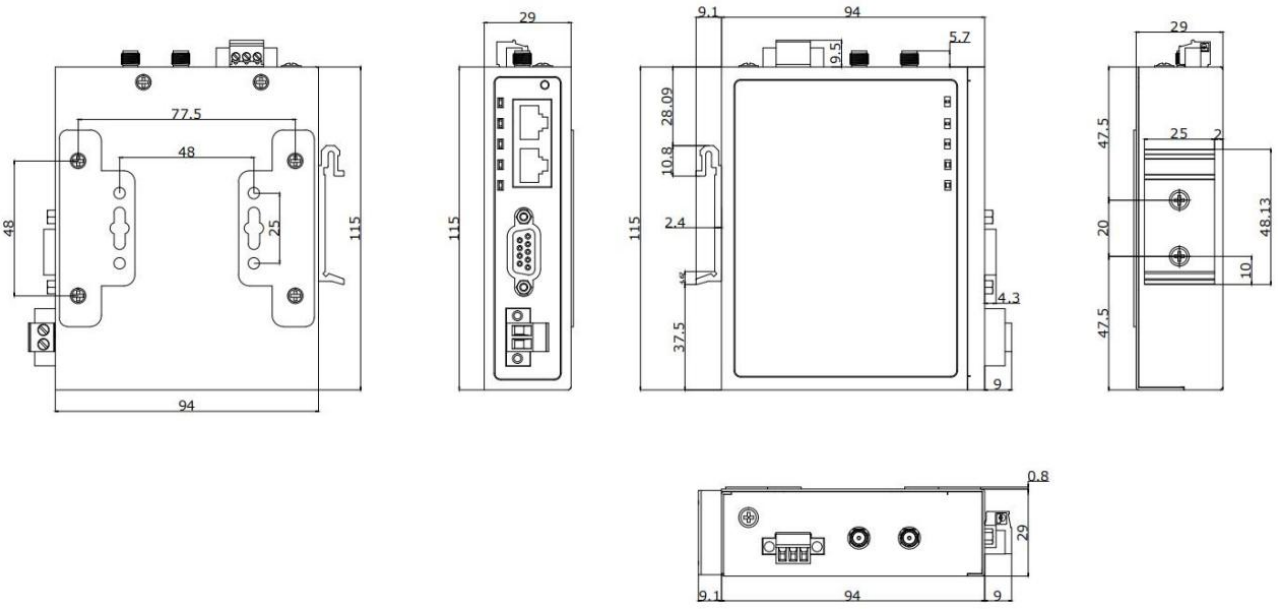


Fig.2 Dimension (With pleural holding)

Ordering Information

Standard Model	1G WAN Port	1G LAN Port	RS 232	RS 485	WiFi Band	Antenna	Input Voltage
CIAP326-2A25-2D	1	1	1	1	2.4&5GHz	2	DC9-36V

Contact Us

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