CIAP326S-2A25-2D

RS232/485 Modbus CAN FD Dual-Band WiFi 6 Wireless Client



- 1×RS232/485, 1×CAN port
- 5×1G Ethernet RJ45 ports, 1×WAN/LAN, 4×LAN, 1G, built-in 1.5KV isolation protection
- Support dual-band 2.4/5.8G WiFi, WiFi6 technology, AP/STA/AP+STA/bridge modes
- Support fast Wi-Fi roaming, switching time <100 ms
- Modbus/CAN Gateway: Modbus RTU to Modbus TCP, CAN(FD) to Modbus TCP, Modbus/CAN to Ethernet/WiFi
- Edge Computing: Multi-Host Modbus Polling, Parsing & Computation
- Support MQTT for cloud integration
- DC 12-48V input voltage, reverse polarity protection
- Aluminum metal housing, DIN rail mount
- IP30-rated housing protection, EMC level 4/3
- -40°C~+75°C working temperature

Product Description

CIAP326S-2A25-2D is an industrial wireless client developed by COME-STAR. It combines a dual-band Wi-Fi 6 wireless client, Wi-Fi serial server, and CAN/Modbus gateway in one device, providing flexible wireless connectivity and protocol conversion for industrial applications.

It supports 2.4/5.8 GHz Wi-Fi with transmission rates up to 1775 Mbps and fast Wi-Fi roaming with switching times under 100ms.

Equipped with 1 × CAN, 1 × RS232/RS485, and 5 × Gigabit Ethernet ports (1 × WAN/LAN + 4 × LAN), CIAP326S-2A25-2D supports CAN FD to Ethernet/Wi-Fi, CAN FD to Modbus TCP, Modbus RTU to Modbus TCP, and Ethernet to WiFi conversion.

Additional functions include edge computing for multi-point data polling, parsing, and local processing. MQTT support enables integration with mainstream Cloud platforms and private MQTT servers.

Designed for harsh industrial environments, CIAP326S-2A25-2D features dual hardware/software watchdogs, DC 12–48 V input with reverse polarity protection, and an aluminum IP30 housing. It operates from -40°C to +75°C and provides ESD Level 4, EFT Level 4, and Surge Level 3 protection. It also supports DIN-rail mounting for flexible installation.

CIAP326S-2A25-2D is suitable for AGVs, industrial robots, smart warehousing, smart factories, and other industrial IoT applications.

Product Features

- Integrate 1 × CAN, 1 × RS232/RS485, and 5 × Gigabit Ethernet ports (1 × WAN/LAN + 4 × LAN)
- Support dual-band Wi-Fi 6 on 2.4 GHz and 5.8 GHz bands
- Support AP, STA, AP+STA, and bridge modes for flexible network deployment
- Support fast Wi-Fi roaming with a network switching time of less than 100 ms
- Support CAN FD to Ethernet/Wi-Fi conversion and CAN/CAN FD to Modbus TCP conversion
- Support Modbus RTU to Modbus TCP conversion for industrial device integration
- Support TCP, UDP, HTTP, MQTT, and SNMP communication protocols
- Support SNMP management, NTP time synchronization, MAC-IP binding, and access control
- Support edge computing for data polling, parsing, processing, and local data transmission
- Support connection to Cloud platforms and MQTT servers for remote monitoring and device management
- Support Wi-Fi signal detection, roaming signal testing, and wireless link testing for site deployment
- Support wired/STA multi-network intelligent backup to maintain network connectivity
- Support IPv6, including Dual-Stack Lite (RFC6333), IPv6-in-IPv4 (RFC4213), and IPv6-over-IPv4 (6rd)
- Support hardware and software dual watchdogs for fault detection and automatic recovery
- Provide DC 12~48 V wide-voltage input with reverse polarity protection
- Provide -40°C to +75°C wide operating temperature range
- Provide IP30 protection with an industrial aluminum housing
- Provide EMC protection: ESD Level 4, EFT Level 4, and Surge Level 3
- Support DIN-rail and wall mounting for flexible installation

Technical Specifications

Items	Description
Power Supply	DC: 12~48 V, 2-pin terminal block, reverse polarity protection
Working Current	Avg.: 700 mA @ 12 V Max.: 2 A @ 12 V
Ethernet Port	
Ethernet Port	1 × WAN/LAN + 4 × LAN, RJ45 connector, 10/100/1000 Mbps compatible, 1.5 kV isolation protection
Wi-Fi	
Standards & Frequency	IEEE 802.11a/b/g/n/ac/ax 2.4 GHz: 2.412–2.484 GHz 5.8 GHz: 5.17–5.25 GHz, 5.725–5.835 GHz
Working Mode	AP / STA / AP+STA / Bridge
Number of Clients	16+ clients
MIMO	2 × 2
Wireless Roaming	Supported; switching time < 100 ms
Transmission Rate	2.4 GHz: 574 Mbps 5.8 GHz: 1201 Mbps
Antenna Connector	SMA female connector
Coverage Range	Outdoor (open space, unobstructed): up to 200 m (2.4 GHz), 500 m (5.8 GHz) Indoor (office environment with obstacles): up to 40 m (subject to environmental factors)

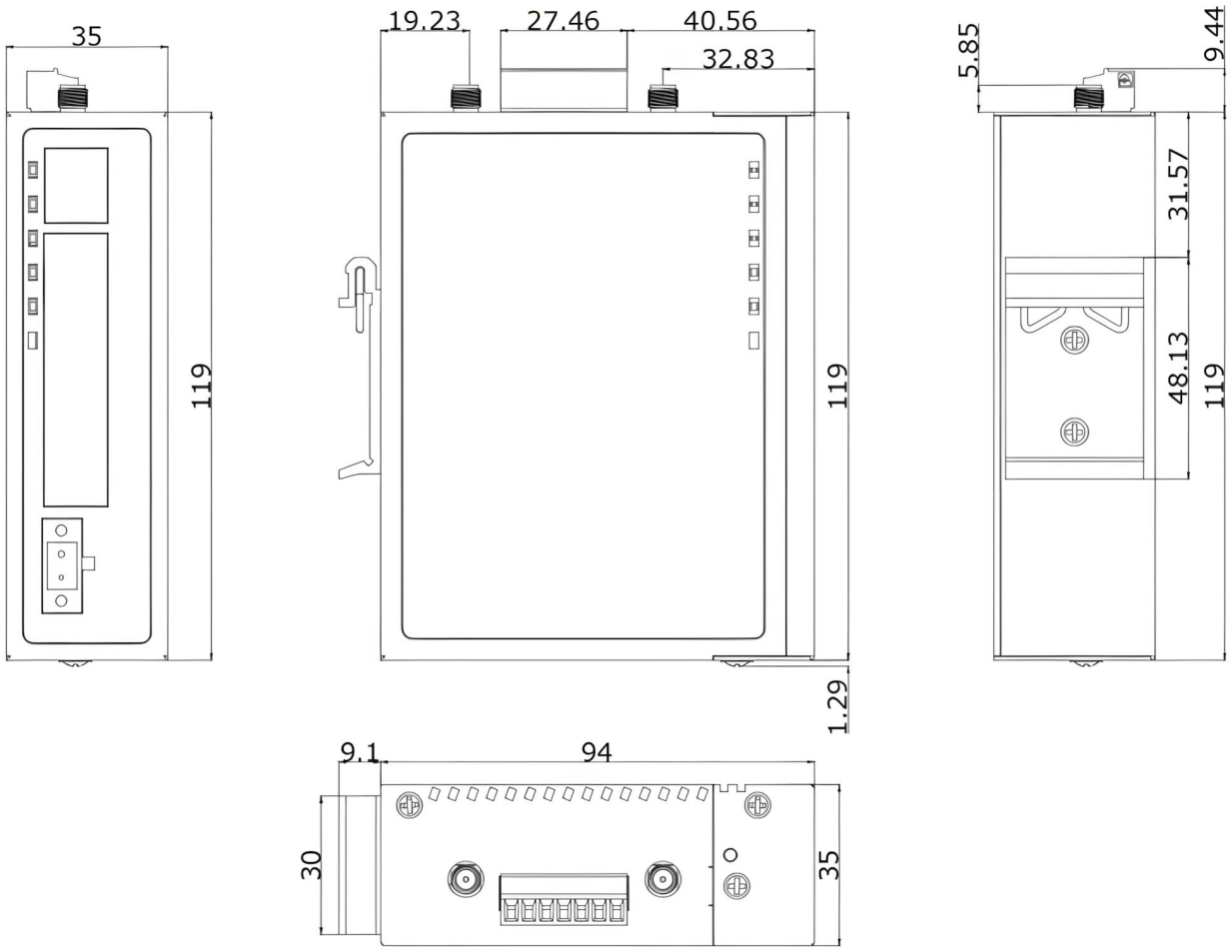
Wi-Fi Antenna Connector	2 × SMA-K
Serial Port	
Number	1 × RS232/RS485
Signal	RS232: Tx, Rx, GND RS485: A, B, GND
Baud Rate	1200 / 2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200 / 230400 bps
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Odd, Even
Packet Interval	0–1000 ms, default: 0 ms
Packet Length	5–1460 bytes, default: 1000 bytes
RS485 Collision Prevention	Supported, default: Off
CAN Port	
Number	1 × CAN port
Terminator	Built-in 120 Ω
Signals	CAN_H, CAN_L, GND
Physical Property	
Casing Material	Aluminum housing, IP30 protection
Dimensions	119 × 94 × 35 mm (L × W × H, excluding the guide rail, antenna base, and installation parts)

Installation	DIN-rail mounting
Operating Temperature	-40°C to +75°C
Storage Temperature	-40°C to +125°C
Operating Humidity	5%–95% RH, non-condensing
Storage Humidity	1%–95% RH, non-condensing
EMC Protection	IEC 61000-4-2 ESD: Contact 8 kV; Air 15 kV IEC 61000-4-4 EFT: Power 2 kV; Signal 1 kV IEC 61000-4-5 Surge: Power 2 kV; Signal 2 kV
Software Function	
Communication Protocol	Serial port: TCP Client (SSL), TCP Server, UDP Client, UDP Server, HTTP Client (SSL), MQTT Client (SSL) CAN port: TCP Client, UDP Client
Modbus Gateway	Serial: Modbus RTU to Modbus TCP CAN: CAN (FD) to Modbus TCP
IP	DHCP / Static IP
Registration Packet	Supported
Heartbeat Packet	Supported
Wi-Fi Encryption	WEP / WPA-PSK / WPA2-PSK
Encryption Methods	WEP64 / WEP128 / TKIP / AES
User Configuring	Web console (HTTP)

Others	
Reset	Reset button Press and hold for 4–15 seconds to restore factory settings Double-tap quickly to enter SmartAPLink for network configuration
Indicators	PWR, RUN, WLAN, 485, 232, CAN
Approvals	
Regulatory	CE, RoHS, WEEE

Dimensions

Unit: mm



Ordering Information

Standard Model	1G WAN/LAN Combo Port	1G LAN Port	Serial
CIAP326S-2A25-2D	1	4	1×RS232/485
CAN	**WiFi Band**	**Antenna**	**Input Voltage**
1	2.4&5GHz	2	DC12-48V

Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.

Address: Building 4, East Area, Wuhan Innocenter, No.27 Yangqiaohu Avenue, Jiangxia District, Wuhan, China.

Tel: +86-027-59257958

Mail: sales@come-star.com

Official site: www.come-star.com

Copyright © Come-Star All rights reserved