CIAP314-1A2-2D

1×RS232 + 1×RS485 + 2×100M Ethernet Ports Industrial Wireless Client



- Support 1×RS232 + 1×RS485 serial ports, 1×WAN/LAN,1×LAN 100M Ethernet ports
- Support 802.11 b/g/n, STA/AP/AP+STA/bridge/routing mode
- Compatible with mainstream industrial protocols: TCP/UDP/HTTP/MQTT/MODBUS/SNMP
- Support connection to Alibaba Cloud, Amazon Cloud, and other mainstream cloud platforms
- Built-in hardware watchdog, fault self-test, self-repair, firmware backup restore function, ensure system stability, and prevent crashing
- DC9-36V power input, reverse power protection
- Industrial metal design, IP30-rated housing protection
- -25°C~+70°C working temperature, EMC level 3 protection

Product Description

CIAP314-1A2-2D is a high-performance WiFi serial device server built on a Qualcomm solution, offering long-distance wireless transmission, wide coverage, low latency, and high stability. It supports 2.4GHz WiFi and the 802.11b/g/n wireless protocol, and provides a rich set of interfaces including 1 × WAN/LAN and 1 × LAN 100M Ethernet ports, as well as 1 × RS232 and 1 × RS485 serial ports. With modes such as STA, AP, AP+STA, bridge, and routing, along with support for port forwarding, it delivers flexible and reliable networking capabilities for diverse industrial scenarios.

The device is built to industrial-grade standards with wide-temperature and wide-voltage tolerance and enhanced hardware protection. It has undergone multiple harsh-environment tests to ensure stable performance. CIAP314-1A2-2D supports TCP, UDP, MQTT, HTTP, Modbus, Alibaba Cloud, AWS Cloud, SNMP, and other protocols. It also integrates dual watchdog mechanisms in both hardware and software to support automatic fault recovery, ensuring long-term reliable operation in demanding environments.

Designed with a hanging-ear installation method, the product is suitable for use in applications requiring centralized WiFi access and high connection density. It is widely used in production inspection, smart warehousing, smart healthcare, intelligent factories, video surveillance, unmanned parking systems, industrial automation, intelligent transportation, smart cities, and other fields where stable and reliable networking is essential.

Product Features

- Full metal enclosure with IP30 protection
- Industrial wide-temperature design from –25℃ to +70℃
- EMC Level 3 electromagnetic protection
- Wide-range DC 9–36V power input with reverse-polarity protection
- Built-in hardware watchdog, fault self-test, self-recovery, and firmware backup/restore
- Complete anti-drop mechanism to keep data transmission stable
- Support 2.4G WiFi (802.11 b/g/n) with STA, AP, AP+STA, bridge, and routing modes
- Support dual Ethernet ports: 1 × WAN/LAN and 1 × LAN
- Support wired/STA multi-network intelligent backup to maintain continuous connectivity
- Support port forwarding for flexible deployment
- Support 1 × RS232 and 1 × RS485, each working independently
- Support mainstream industrial protocols: TCP, UDP, HTTP, MQTT, Modbus, SNMP
- Make serial data acquisition efficient and reliable
- Support Alibaba Cloud, AWS Cloud, and other cloud platforms
- Support opening the built-in web interface of wireless clients through cloud service for centralized management
- Support NTP time calibration, MAC-IP binding, access control, and SNMP network management
- Support horizontal desktop placement and wall-mounted installation

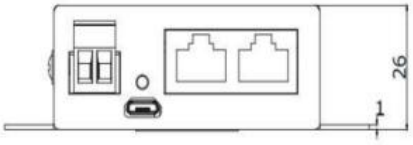
Technical Specifications

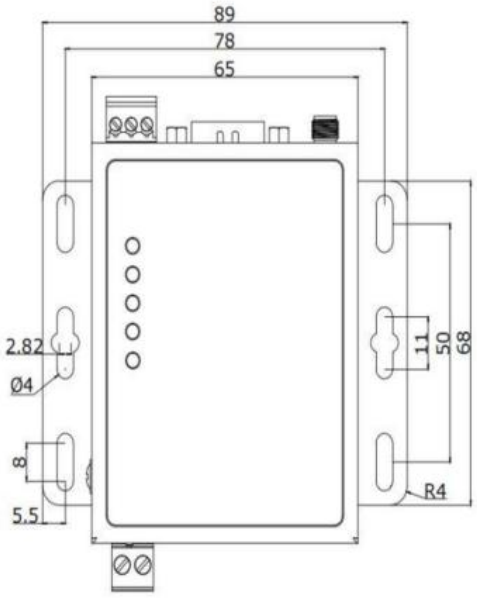
Wireless Parameters	Wireless standards	Support IEEE802.11b/g/n
	Frequency range	2.412GHz-2.484GHz
	WiFi Mode	AP/STA/AP+STA/Bridging/Routing
	Number of Client Connections	8
	Data Rate	300 Mbps
	MIMO	2 × 2
	Power Out	HT20（18dBm）; HT40(17dBm)
	WiFi Antenna	1 × Rod antenna （5 dBi）
	Coverage distance	Outdoor open/unobstructed, coverage radius up to400meters
Serial Port	Serial ports number	1 × RS232 + 1 × RS485
	Standard	RS-232: DB9 RS-485: 3P Phoenix terminal
	Data bits	7, 8
	Stop bits	1, 2
	Parity Bit	None, Even, Odd
	Baud rate	RS232 interface: 1200/2400/4800/9600/19200/38400/57600/115200/230400 RS485 interface: 1200/2400/4800/9600/19200/38400/57600/115200/230400
	Socket mode	TCPS/TCPC/UDPS/UDPC/MODBUS/MQTT/HTTP/Alibaba Cloud/AWS

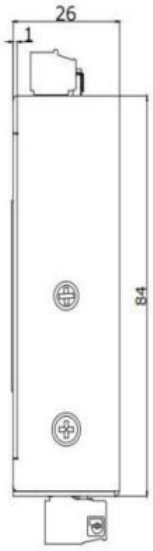
	Heartbeat package/ Registration package	Support
Hardware Parameters	Power	DC9～36V
	Adapter	12V/1A
	Currency	Average current 155 mA（DC12V） Max current 270 mA at（DC12V）
	Operating Temperature	-25~70℃
	Storage Temperature	-40~125℃
	Operating Humidity	5%～95% RH (non-condensing)
	Storage Humidity	1%～95% RH (non-condensing)
	Dimension	89 × 103.7 × 26（mm） (L*W*H)
	Installation	Wall mount, horizontal desktop placement
	EMC level	Level 3
Hardware Interface	Ethernet	1 × WAN/LAN + 1 × LAN RJ45 interface: 10/100Mbps adaptive, compliant with IEEE802.3
	Indicators	PWR, WORK, WLAN, 485, 232
	Ground protection	Ground screw
	Reload button	Press and hold for 3 to 15 seconds, then release to restorethefactory settings

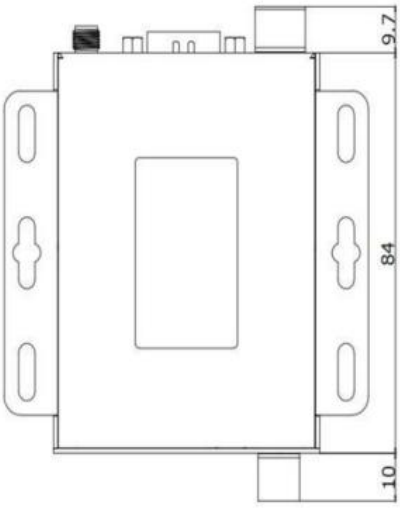
Dimensions

Unit: mm (first angle projection)









Ordering Information

Standard Model	RS232	RS485	100M RJ45	Wi-Fi	Input Voltage
CIAP314-1A2-2D	1	1	2	2.4GHz	DC9~36V

Contact Us

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