CIAP625-3A25

2-Port 100M Dual-Band Wi-Fi 5 Pole Mount Industrial Wireless AP



- Support 1 x 100M WAN/LAN combo port (PoE-in), 1 x 100M LAN port, 2 x 2.4GHz antenna ports, and 1 x 5GHz antenna port
- Support five operating modes: Router, AP, Repeater, Bridge, and Client, catering to diverse application scenarios
- Support 802.11k/v/r fast roaming, enabling rapid handover, low latency, and seamless transitions for wireless terminals moving between identical WLANs
- Support AC-controlled features including fast roaming, fast discovery, auto-synchronization, network-wide management, and bulk upgrades
- Support WDS wireless and WISP universal bridging to extend and amplify wireless signals
- Support firewall and service functions including port forwarding, IP/MAC rate limiting/filtering, NAT, DMZ, QoS, internal network penetration, DDNS, VPN, SNMP, and LLDP
- High-strength aluminum alloy base housing, IP67 protection rating
- Operating temperature range: -40°C~+70°C

Product Description

The CIAP625-3A25 is a 2-Port 100M dual-band Wi-Fi 5 industrial pole mounted wireless access point, delivering a combined dual-band throughput of up to 733Mbps. This product features 2 x 2.4GHz antenna ports, 1 x 5GHz antenna port, 1 x 100M WAN/LAN combo port, and 1 x 100M LAN port. The WAN/LAN combo port is copper port supporting PoE power reception, while the LAN port is 100M copper port. It utilizes a pole-mount IP67 waterproof enclosure to meet diverse network deployment requirements.

The CIAP625-3A25 supports web-based configuration for multiple network management functions, including: - Router/AP/Repeater/Bridge/Client modes - Universal/WDS bridging - Fast roaming - AC control - Dynamic/static/PPPoE dial-up networking, IP address conflict detection, DHCP server, IP/MAC binding, 2.4GHz/5GHz settings, black/white lists, static routing, network diagnostics, firewall, internal network penetration, DDNS, VPN, SNMP, LLDP, NTP, etc. The system offers multi-level user management, supports local/remote log management, and enables scheduled reboots, configuration backup/restore, firmware upgrades, and factory reset. The hardware employs high-standard industrial protection design with premium industrial-grade components and a high-strength aluminum alloy chassis for rugged durability. Featuring low power consumption and wide temperature operation (-40°C to +70°C), it passes stringent safety and EMC testing to meet demanding industrial environments. The product is widely applicable in

industrial automation, integrated energy systems, smart cities, intelligent transportation, smart mining, and smart factories.

Features and Benefits

- Support Wi-Fi 5 dual-band WLAN wireless local area network, with a theoretical maximum speed of 300Mbps on 2.4GHz and 433Mbps on 5GHz;
- Support router mode, enabling connection to external networks via dynamic/static/PPPoE dial-up to connect wired and wireless terminals;
- Support AP mode to convert wired networks into wireless networks, enabling wireless terminals to access wired networks under AC control;
- Support repeater mode to amplify upstream wireless networks, converting them into dual-mode wired/wireless networks for simultaneous wired and wireless terminal access;
- Support bridge mode to convert wireless networks into dual-mode wired/wireless networks for simultaneous wired and wireless terminal access;
- Support client mode, converting wireless networks into wired networks to enable wired terminals to access wireless networks;
- Support IP address conflict detection, quickly locating the source of IP conflicts to prevent network failures;
- Support DHCP server for centralized dynamic management and configuration of user IP addresses;
- Support DHCP access device management, binding client IPs to MAC addresses to prevent IP changes or conflicts;
- Support 802.11k/v/r fast roaming, reducing information exchange via FT protocol for low latency and enhanced user experience;
- Support switching between multiple country codes for regional channel compatibility;
- Support transmit power adjustment, connection user limit, SSID hiding, user isolation, WDS bridging, and more;
- Support WEP-OPEN/SHARE-AUTH, WPA/WPA2-PSK encryption methods, CCMP and TKIP encryption algorithms;
- Support wireless user management with black/white lists for filtering, allowing/blocking specific wireless users;
- Support static routing to precisely control network routing choices, improving performance and ensuring bandwidth allocation;
- Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, and network packet capture for diagnostics or fault analysis;
- Support firewall functions including SYN-flood defense, port forwarding, IP/MAC/domain address filtering, custom iptables rules, NAT translation, DMZ isolation, UPnP, IP/MAC bandwidth control, and QoS services;
- Support NTP client and server functionality for clock synchronization or providing a clock source;
- Support hierarchical user permission management with SSH and HTTP/HTTPS access control;
- Records multi-level kernel, application, and network logs, supporting local download, scheduled backup, and remote monitoring;
- Support Peanut Shell internal network penetration, enabling remote device login and management via Peanut Shell dynamic domain names;
- Support dynamic DNS functionality, allowing remote device login and management through designated domain names;
- Support VPN client and server for private network construction. Clients support PPTP, L2TP, GRE, GRETAP, OpenVPN, and other tunnel protocols; servers support PPTP, L2TP, and IPSec protocols;
- Support SNMPv1/v2c and SNMP Trap. Enables centralized management through MIB for information querying, modification, and troubleshooting;

- Support LLDP to obtain LLDP neighbor device information, monitor link status, and facilitate topology management and fault localization.

Specifications

Software	
Network Management	Support traffic statistics, operational status, network status, local address, and other status information or wireless details Support routing mode, AP mode, repeater mode, bridge mode, and client mode Support static addresses, DHCP, and PPPoE external network connections Support DHCP server, IP/MAC binding, and wireless user black/white lists Support IP address conflict detection Support 802.11k/v/r fast roaming Support static routing Support Peanut Shell internal network penetration, dynamic DNS, SNMP, LLDP Support PPTP/L2TP/GRE/TUN/TAP protocol VPN clients Support PPTP/L2TP/IPSec protocol VPN server

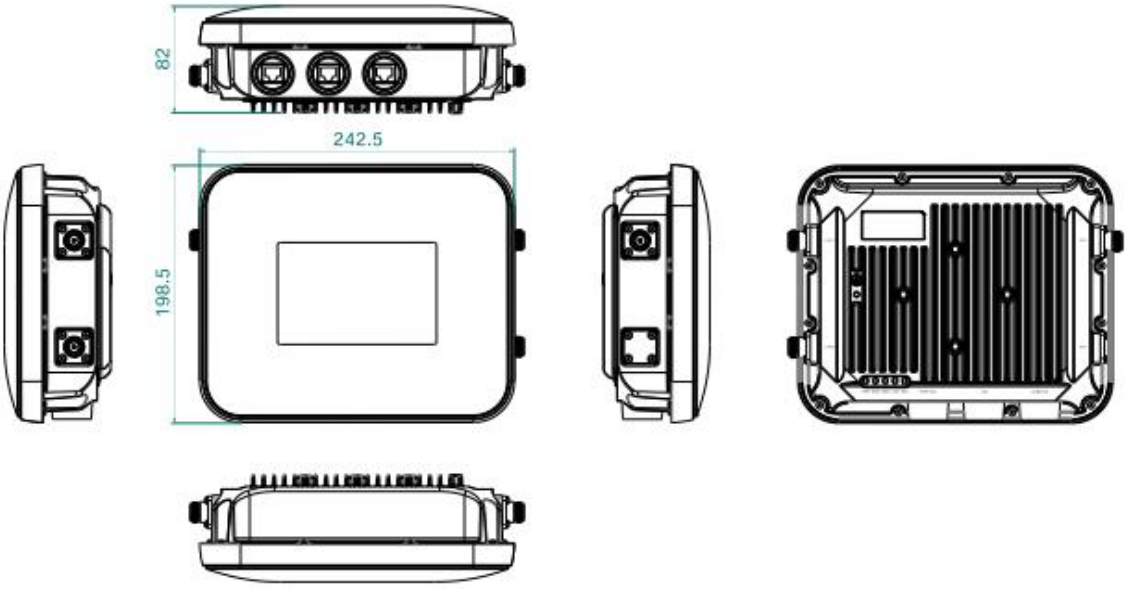
Firewall	Support SYN-flood defense, IP dynamic spoofing, MSS throttling, inbound/outbound data control Support WAN/LAN port TCP/UDP port mapping Support IP/MAC/domain name filtering, iptables, NAT, DMZ, UPnP, IP/MAC/QoS speed limiting
System Management	Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, network packet capture Support time zone, NTP client/server, Crontab, remote/local logging Supports user permission management, SSH, HTTP/HTTPS access control Support online reboot, scheduled reboot, configuration backup/restore, firmware flashing, factory reset
Wi-Fi	
Wireless Standard	IEEE 802.11b/g/n (2.412GHz~2.484GHz) IEEE 802.11a/n/ac (5.18GHz~5.825GHz)
Working Frequency	2.412GHz~2.484GHz (2.4GHz ISM Band) 5.18GHz~5.825GHz (5.0GHz ISM Band)
Channel Bandwidth	20MHz/40MHz/80MHz
TX Power	IEEE 802.11ac: 12±2dBm @Ht80 MCS9 /5GHz band IEEE 802.11ac: 16±2dBm @Ht80 MCS0 /5GHz band IEEE 802.11n: 13-16dBm @HT20/40 MCS7 IEEE 802.11g: 14-17dBm @54MHz IEEE 802.11b: 16-20dBm @11MHz
RX Sensitivity	VHT80 MCS9: -58dBm@10% PER(MCS9) /5GHzband HT40 MCS7: -69dBm@10% PER(MCS7) HT20 MCS7: -71dBm@10% PER (MCS7)

	54M: -75dBm @ 10% PER 11M: -88dBm @ 8% PER
Theoretical Transfer Rate	2.4GHz band 2T2R maximum data rate: 300Mbps 5GHz band 1T1R maximum data rate at 80MHz bandwidth: 433Mbps Total Wireless Rate: 733Mbps
Interface	
100M WAN (PoE)	1×10/100Base-T(X) auto-sensing WAN/LAN combo port, RJ45 connector, supporting full/half-duplex operation and auto MDI/MDI-X, supports standard PoE power reception, compliant with IEEE802.3af/at standards
100M LAN	1×10/100Base-T(X) auto-sensing RJ45 LAN ports, full/half-duplex, auto MDI/MDI-X
Antenna Connector	2 x 2.4GHz antenna ports and 1 x 5GHz antenna port, all using N-K type (Female) connectors
Status LED	Power indicator, Operation indicator, WAN indicator, LAN indicator, WiFi indicator
Power Supply	
Power Input	Standard PoE DC48V power interface (DC44~57V input)
Power Consumption	＜5W (full load)
Connection	RJ45 (WAN port)
Physical Characteristics	
Dimensions	242.5×198.5×82mm (excluding antenna and clamp)
Installations	Pole-mounted
IP Code	IP67

Weight	About 1.55 kg (excluding antenna and clamp)
Working Environment	
Operating Temp	-40℃~+70℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 (contact discharge ±8kV, air discharge ±15kV) IEC 61000-4-5 (Surge): Level 3 (Power supply, Ethernet port: Common-mode ±2kV, Differential-mode ±1kV) IEC 61000-4-4 (EFT): Level 4 (Power supply: ±4kV; Ethernet port: ±2kV)

Dimensions

Unit: mm



Ordering Information

Standard Model	100M WAN	100M LAN	2.4GHz Antenna	5GHz Antenna	Input Voltage
CIAP625-3A25	1	1	2	1	PoE DC48V



Contact Us

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