CIAP354R-3A25

5-Port Dual Band Wi-Fi 5 DIN-Rail Industrial Wireless AP



- 1 x 100M WAN/LAN combo port, 4 x 100M LAN ports, 2 x 2.4GHz antenna interfaces, and 1 x 5GHz antenna interface
- Support routing, AP, relay, bridging and client working modes
- Support enhanced roaming in client mode, achieving seamless and fast roaming, effectively ensuring real-time data transmission, and improving the reliability of wireless network communication
- Support 802.11k/v/r fast roaming, wireless roaming terminals can achieve fast switching, low latency, and smooth transition when moving between multiple identical WLAN networks
- Support fast roaming, fast discovery, automatic synchronization, whole network management and batch upgrade functions under AC control
- Support WDS wireless and WISP universal bridging, expand and extend wireless signals
- Support port forwarding, IP/MAC/DOMAIN NAME filtering, NAT, DMZ, intranet penetration, DDNS, VPN, SNMP, LLDP and other firewall and service functions
- High strength aluminum alloy shell, IP40 protection level, fanless design
- Work in harsh industrial environments ranging from -40 °C to+75 °C

Product Description

CIAP354R-3A25 is a 5-port 100M dual-band Wi-Fi 5 DIN-rail industrial wireless AP specifically designed for industrial communication network applications. It features 2 x 2.4GHz antenna ports, 1 x 5GHz antenna port, 1 x 100M WAN/LAN combo copper port, and 4 x 100M LAN ports. The antenna ports support optional 6kV lightning protection. Supports single DC 9~36V power input and utilizes standard DIN rail mounting to meet diverse field network requirements.

The product supports web-based configuration of multiple network management functions, including routing/AP/relay/bridging/client modes, universal/WDS bridging, fast roaming, AC control, dynamic/static routing, IP address conflict detection, DHCP server, IP/MAC binding, RF settings, black/white lists, static routing, network diagnostics, firewall, IPv6 services, and more. static/PPPoE dial-up networking, IPv6 services, IP address conflict detection, DHCP server, IP/MAC binding, RF settings, black/white lists, static routing, network diagnostics, firewall, internal network penetration, DDNS, VPN, SNMP, LLDP, NTP, etc. The system provides multi-level user management, supports local/remote log management, and enables scheduled reboots, configuration backup/restore, firmware upgrades, and factory reset. The hardware features high-standard industrial protection design, utilizing premium industrial-grade components within a robust high-strength aluminum alloy housing. Its low-power, wide-temperature design supports operation from -40°C to +75°C, passing stringent safety and EMC testing to meet demanding industrial applications. The product is widely applicable in industrial automation, integrated energy systems, smart cities, intelligent transportation, smart mining, and smart factories.

Product Features

- Support the routing mode, and the WAN can connect to the external network via DHCP/static address /PPPoE dial-up mode to realize the wired and wireless terminal networking
- Support AP mode, can turn wired network into wireless network, realize wireless terminal access to wired network, AC controllable
- Support relay mode, can enlarge the superior wireless network, turn the wireless network into wired network, realize wired and wireless terminal access
- Support bridging mode, can turn the wireless network into wired and wireless network, realize wired and wireless terminal access
- Support client mode, can turn the wireless network into wired network, realize the wired terminal access to the wireless network
- Support IP address conflict detection, quickly locate IP conflict sources, and avoid network failures
- Support DHCP server for centralized dynamic management and configuration of user IP addresses
- Support DHCP access device management, bind client IP and MAC addresses to avoid IP address changes or conflicts
- Support 802.11k/v/r fast roaming, reduce the information interaction through FT protocol, achieve low latency, improve user Internet experience
- Support switching between multiple country codes, suitable for channels in different regions
- Support transmission power regulation, connection user number limit, SSID hiding, user isolation, WDS bridge, etc.
- Support WEP-OPEN / SHARE-AUTH, WPA / WPA 2-PSK encryption mode, CCMP and TKIP encryption algorithm
- Support wireless user management, black/white list for wireless user filtering, prohibit / allow specified wireless user access
- Support static routing, accurately control network routing selection, improve network performance, and ensure network bandwidth
- Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, packet capture, and can perform network diagnosis or fault analysis
- Support firewall features including SYN flood defense, port forwarding, IP/MAC/domain address filtering, custom iptables rules, NAT translation, DMZ isolation zone, UPnP, IP/MAC bandwidth control, and QoS services
- Support NTP client and server function, can perform clock synchronization or provide clock source
- Support hierarchical management of user rights and SSH, HTTP / HTTPS access control
- Log information records multiple levels of kernel, application, and network information, and support local download, timing storage, and remote monitoring
- Support the peanut shell Intranet penetration, can use the peanut shell dynamic domain name to remote login and management equipment

- Support the dynamic DNS function, can log in and manage the device remotely by specifying the domain name
- Support VPN client and server to build special network, the client supports tunnel protocols of PPTP, L2TP, IPSec, OpenVPN and GRE, and the server supports protocols of PPTP, L2TP and IPSec
- Support SNMPv1/v2c and SNMP Trap, enabling information querying, modification, and troubleshooting through MIB, achieving centralized management
- Support LLDP, obtains LLDP neighbor device information, monitors link status, facilitates topology management and fault localization

Technical Specifications

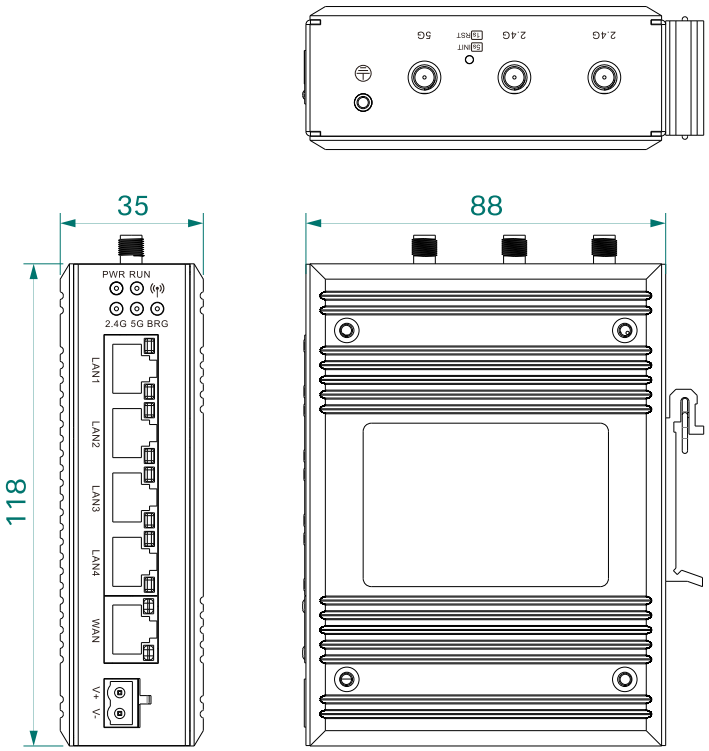
Software	
Network Management	Support traffic statistics, running status, network status, native address and other status information or wireless information Support routing mode, AP mode, relay mode, bridge mode, and client mode Support static address, DHCP, PPPoE extranet connection Support DHCP server, IP/MAC binding, wireless user black and white list Support IP address conflict detection and IPv6 services Support 802.11k/v/r fast roaming, support client mode enhanced roaming function Support static routing Support peanut shell mesh penetration, dynamic DNS, SNMP, LLDP Support the PPTP/L2TP/GRE/TUN/TAP protocol VPN client Support the 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 rate limiting
System Management	Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, network packet capture Support time zone, NTP client/server, Crontab, remote/local logging Support user permission management, SSH, HTTP/HTTPS access control, certificate upload Support online reboot, scheduled reboot, configuration

	backup/restore, firmware flashing, factory reset
Wi-Fi RF Parameters	
Wireless Standards	IEEE 802.11b/g/n (2.412GHz~2.484GHz) IEEE 802.11a/n/ac (5.18GHz~5.825GHz)
Frequency Range	2.412GHz~2.484GHz，5.18GHz~5.825GHz
Band Bandwidth	20MHz/40MHz/80MHz
TX Power	IEEE 802.11ac: 12±2dBm @VHT80 MCS9 /5GHz band IEEE 802.11ac: 16±2dBm @VHT80 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) /5GHz band HT40 MCS7: -69dBm@10% PER(MCS7) HT20 MCS7: -71dBm@10% PER(MCS7) 54M: -75dBm@10% PER 11M: -88dBm@ 8% PER
Theoretical Transfer Rate	2.412GHz~2.484GHz band 2T2R maximum transmission rate: 300Mbps 5.18GHz~5.825GHz band 1T1R maximum transmission rate: 433Mbps Total wireless rate: 733Mbps
Interface	
100M WAN	1 x 10/100Base-T(X) auto-sensing RJ45 WAN/LAN combo port, support full/half duplex, auto MDI/MDI-X
100M LAN	4 x 10/100Base-T(X) auto-sensing RJ45 LAN port, support full/half duplex, auto MDI/MDI-X
Antenna Interface	2 x 2.4GHz antenna interfaces and 1 x 5GHz antenna interface, both using SMA-K (external thread internal hole)
Indicator Light	Power indicator, operation indicator, 2.4G indicator, 5G indicator, BRG indicator, interface indicator
Power Supply	
Input Voltage	DC9~36V
Power Consumption	＜3.6W@DC12V
Connection	5.08mm pitch 2-pin terminal block

Physical Characteristics	
Dimensions	118×35×88 mm (excluding the DIN-rail)
Installations	35mm standard DIN-rail mounting
IP Code	IP40
Weight	About 0.35kg
Working Environment	
Operating Temp	-40°C~+75°C
Storage Temp	-40°C ~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 * Network port supports 6kV surge protection IEC 61000-4-4 (EFT): Level 4

Dimensions

Unit: mm



Ordering Information

Standard Model	100M WAN	100M LAN	2.4GHz Antenna	5GHz Antenna	Input Voltage
CIAP354R-3A25	1	4	2	1	DC 9~36V

Contact Us

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