

MIAP6200-3N25-5T

DIN-Rail Wi-Fi Dual-Frequency Industrial Wireless AP



- 1x100Mbps WAN/LAN port, 4x100Mbps LAN ports, 2x2.4GHz antenna interfaces, and 1x5GHz 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 firewall and service functions such as port forwarding, IP/MAC/DNS filtering, DMZ, intranet penetration, DDNS, VPN, SNMP, LLDP, etc
- High strength aluminum alloy shell, IP40 protection level, fanless design
- Work in harsh industrial environments ranging from -40 °C to +75 °C



Product Description

MIAP6200-3N25-5T is a 5-port 100Mbps Din-rail industrial grade dual frequency Wi-Fi wireless AP which is designed and developed specifically for industrial communication network applications. It provides 2x2.4GHz antenna interfaces,

1x5GHz antenna interface, 1x100Mbps WAN/LAN multiplexing port, and 4x100Mbps LAN ports. It supports 1xDC9-36V power input and adopts a standard DIN-rail installation to meet the requests of various network sites.

This product supports various network management functions in WEB configuration, such as routing/AP/relay/bridge/client mode, universal/WDS bridging, fast roaming, AC control, dynamic/static/PPPoE dial-up networking, IP address conflict detection, DHCP server, IP/MAC binding, RF settings, blacklist and whitelist, static routing, network diagnosis, firewall, intranet penetration, DDNS, VPN, SNMP, LLDP, NTP, etc; The system provides user management with different permissions, supports local/remote log management, supports scheduled restarts, configuration backup and recovery, firmware upgrades, and factory settings recovery. The hardware is in high standard industrial protection design, uses industrial grade components and high-strength aluminum alloy casing, which is sturdy and durable, with low power consumption, wide temperature design, no fan heat dissipation, supports working temperatures of -40 °C~+75 °C, and meets the harsh industrial environment application requirements through strict safety regulations and EMC testing. This product can be widely used in industrial automation, comprehensive energy, smart cities, intelligent transportation, smart mines, smart factories and other fields.



Features and Benefits

- 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 SYN-flood defense, port forwarding, IP/MAC/DNS address filtering, iptables instruction custom rules, DMZ isolation area, UPnP, IP/MAC network speed control, QoS service and other firewall functions
- 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
- AP mode supports the rapid discovery of AC on the layer 2 and layer 3 networks, and the automatic registration and online function
- AP mode supports AC controller RF parameter configuration and whole network management function
- AP mode supports online automatic synchronous configuration parameters, and periodic reporting of equipment and wireless terminal information
- AP mode supports the AC controller wireless black and white list configuration function
- The AP mode supports the fast-roaming function under the AC controller to realize the roaming switching function of wireless terminal devices
- AP mode supports multiple upgrade methods such as single upgrade, batch upgrade, online and online automatic upgrade under the AC controller
- AP mode supports wired or wireless rescue network, when the network is abnormal, access the fixed IP to log in WEB management through wired or wireless network



Specification

Software Functions	
Network Management Function	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 Support 802.11k/v/r fast roaming, support client mode enhanced roaming function Supports 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 camouflage, MSS clamp, inbound / outbound data control Supports WAN / LAN port TCP / UDP port mapping Support IP / MAC / domain name filtering, iptables, DMZ, UPnP, IP / MAC / QoS speed limit



Specification

System Management	Supports IPv4 / IPv6 Ping, IPv4 / IPv6 Traceroute, Nslookup, and grabbing network package Supports the time zone, NTP client / server, Crontab, remote / local logs Support user authority management, SSH, HTTP / HTTPS access control Support online restart, scheduled restart, configure backup / recovery, brush firmware, and restore factory settings
Wi-Fi RF Parameters	
Wireless Standards	2.4GHz 802.11b/g/n, 5GHz 802.11a/n/ac
Frequency Range	2.412GHz~2.484GHz, 5.18GHz~5.825GHz
Band Bandwidth	20MHz/40MHz/80MHz
Maximum Transmission Rate (Theoretical Value)	2.4GHz: 300Mbps, 5GHz: 433Mbps
Maximum Transmission 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: 16-19dBm @11MHz
Receiving 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
Interface	
100M WAN	1x10/100Base-T(X) auto-sensing RJ45 WAN/LAN multiplexing port, support full/half duplex, auto MDI/MDI-X
100M LAN	4x10/100Base-T(X) auto-sensing RJ45 LAN port, support full/half duplex, auto MDI/MDI-X
Antenna Interface	2x2.4GHz antenna interfaces and 1 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



Specification

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℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)

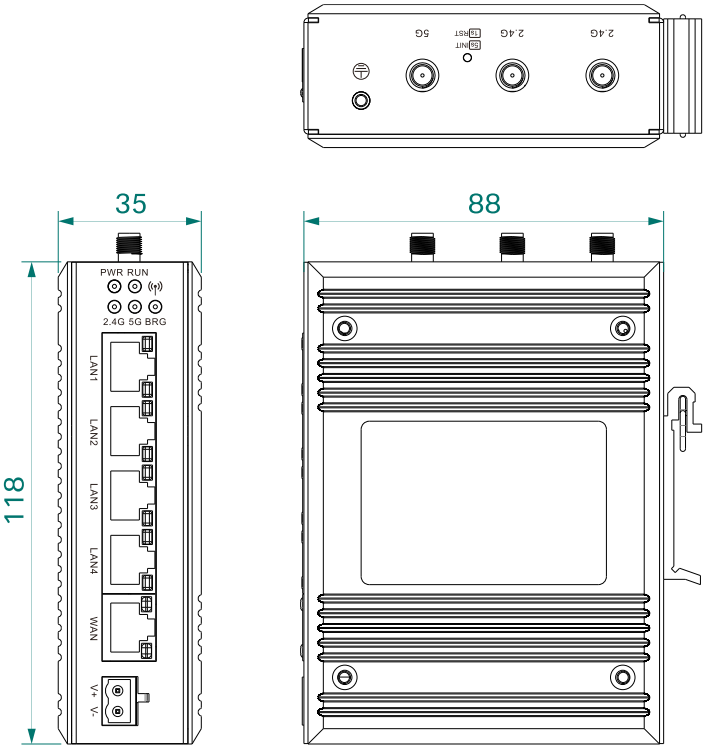
Industry Standard

EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 * Network port supports 6kV lightning protection IEC 61000-4-4 (EFT): Level 4
Certification	CE, FCC, RoHS



Dimensions

Unit: mm





Ordering Information

Standard Model	100M WAN	100M LAN	2.4GHz Antenna	5GHz Antenna	Input Voltage
MIAP6200-3N25-5T	1	4	2	1	DC 9~36V



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