MIAP7500-4N25-GF-GT

Industrial-grade Pole-mounted Gigabit Dual-band Wi-Fi 6 Wireless AP

- Support 1*Gigabit WAN/LAN multiplexing port (PoE powered), 1*Gigabit LAN port (SFP), 2*2.4GHz antennas and 2*5GHz antenna Interface
- Support Wi-Fi6 dual-band WLAN wireless LAN, support OFDMA+MU-MIMO technology
- Support five working modes of routing, AP, relay, bridge and client to meet different application scenarios
- Support functions such as fast roaming, fast discovery, automatic synchronization, entire network management and batch upgrade under AC control
- Support WDS wireless and WISP universal bridging to expand and extend wireless signals
- Support advanced settings such as short protection time interval, segmentation threshold, RTS threshold, pure G mode, pure 11N mode, etc.
- 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 bottom shell, IP67 protection level, fanless shell for heat dissipation, the device can reliably work in harsh industrial environments of -40℃~+70℃

Product Introduction

MIAP7500-4N25-GF-GT is an outdoor pole-type Gigabit dual-band Wi-Fi 6 industrial-grade wireless AP independently developed by Wuhan Maiwe Communications Co., Ltd., with a dual-band concurrent rate of up to 2976Mbps. This product provides 2*2.4GHz antenna Interfaces, 2*5GHz antenna Interfaces, 1*Gigabit WAN/LAN multiplexing port and 1*Gigabit LAN port. The WAN/LAN multiplexing port is an electrical port and support PoE power supply. The LAN port It is a Gigabit SFP slot and adopts a pole-type IP67 waterproof enclosure to meet the needs of various network sites.

The product support WEB configuration of various network management functions, such as routing/AP/relay/bridging/client mode, universal/WDS bridging, AC control, dynamic/static/PPPoE dial-up networking, DHCP server, IP/MAC binding, 2.4G /5G settings, black and white list, static routing, network diagnosis, firewall, intranet penetration, DDNS, VPN, SNMP, LLDP, NTP, etc.; the system provides user management with different permissions, support local/remote log management, and support scheduled restart and configuration backup and restore, firmware upgrade, factory reset. The hardware adopts high-standard industrial protection design, with selected industrial-grade components and high-strength aluminum alloy bottom shell, which is sturdy and durable; low power consumption, wide temperature design, fanless shell heat dissipation, support -40℃~+70℃ operating temperature, It has passed strict safety and EMC tests to meet the application requirements of harsh industrial environments. Products can be widely used in industrial automation, integrated energy, smart cities, smart transportation, smart mines, smart factories and other fields.

Features and Benefits

- Support OFDMA+MU-MIMO technology, providing multi-channel concurrency in frequency domain and physical space, improving multi-user high-density access
- Support Wi-Fi 6 dual-band WLAN wireless LAN, 2.4G theoretical maximum rate 574Mbps, 5G Support 160MHz bandwidth, theoretical maximum rate 2402Mbps
- Support routing mode and can connect to the external network through dynamic/static/PPPoE dial-up methods to realize wired and wireless terminal networking
- Support AP mode, which can convert the wired network into a wireless network, allowing wireless terminals to access the wired network, and the AC is controllable
- Support relay mode, which can amplify the upper-level wireless network and convert it into wired and wireless networks to achieve wired and wireless terminal access
- Support bridge mode, which can convert wireless networks into wired and wireless networks to achieve wired and wireless terminal access
- Support client mode, which can convert the wireless network into a wired network and enable wired terminals to access the wireless network
- Support DHCP server to centrally dynamically manage and configure user IP addresses
- Support DHCP access device management, binding client IP and MAC address to avoid IP address changes or conflicts
- Support multiple country code switching, suitable for channels in different regions
- Support 2.4G+5G frequency band, transmit power adjustment, user number limit, SSID hiding, user isolation, WDS bridging, etc.
- Support short protection time interval, segmentation threshold, RTS threshold, pure G mode, pure 11N mode, etc.
- Support WPA PSK, WAP2 PSK, WAP3 SAE, WPA2+WPA3 encryption methods
- Support wireless user management, black/white list can filter wireless users, prohibit/allow designated wireless users to access
- Support static routing, which can accurately control network routing selection, improve network performance, and ensure network bandwidth.
- Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, and packet capture for network diagnosis or fault analysis
- Support SYN-flood defense, port forwarding, IP/MAC/DNS filtering, iptables custom rules, DMZ, UPnP and other firewall functions
- Support NTP client and server functions, 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 downloading, scheduled saving, and remote monitoring.
- Support Peanut Shell intranet penetration, and can use Peanut Shell dynamic domain name to remotely

log in and manage equipment

- Support dynamic DNS function, and can remotely log in and manage the device through the specified domain name
- Support VPN client and server to build a dedicated network. The client Support tunnel protocols such as PPTP, L2TP, IPSec, OpenVPN, and GRE. The server Support protocols such as PPTP, L2TP, and IPSec.
- Support SNMPv1/v2c and SNMP Trap. Information query, information modification and troubleshooting can be carried out through MIB to achieve centralized management.
- Support LLDP, obtains LLDP neighbor device information, and monitors link status to facilitate topology management and fault location.
- AP mode support quick discovery of ACs on Layer 2 and Layer 3 networks, and automatic registration and online functions
- AP mode support AC controller wireless radio frequency parameter configuration and entire network management functions
- AP mode support automatic synchronization of configuration parameters when online, and periodically reports device and wireless terminal information
- AP mode support AC controller wireless black and white list configuration function
- AP mode support fast roaming function under AC controller to realize roaming switching function of wireless terminal equipment
- AP mode support multiple upgrade methods such as single upgrade, batch upgrade, online and online automatic upgrade under the AC controller
- AP mode support wired or wireless rescue network. When the network is abnormal, access the fixed IP through the wired or wireless network to log in to the WEB management device

Specification

Software	
Network Management Function	Support traffic statistics, operating status, network status, local address and other status information or wireless information Support routing mode, AP mode, relay mode, bridge mode, client mode Support static address, DHCP, PPPoE external network connection Support DHCP server, IP/MAC binding, wireless user black and white list Support short protection time interval, segmentation threshold, RTS threshold, pure G mode, pure 11N mode Support static routing Support peanut shell intranet penetration, dynamic DNS, SNMP, LLDP Support PPTP/L2TP/GRE/TUN/TAP protocol VPN client
Firewall	Support SYN-flood defense, IP dynamic camouflage, MSS clamping, inbound/outbound data control Support WAN/LAN port TCP/UDP port mapping Support IP/MAC/domain name filtering, iptables, DMZ, UPnP

Specification

System Management	Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, and capture network packets Support time zone, NTP client/server, management port, Crontab, remote/local log Support user rights management, SSH/HTTPS access control Support online restart, scheduled restart, configuration backup/restore, firmware flash, and factory settings restore
Wi-Fi	
Wireless Standards	2.4GHz 802.11b/g/n/ax 5GHz 802.11a/n/ac/ax
Modulation	DBPSK、DQPSK、CCK、OFDM、16-QAM、64-QAM、256-QAM、1024-QAM
Bandwidth	20MHz/40MHz/80MHz/160MHz
Maximum Transmission Rate (theoretical	2.4GHz：574Mbps 5GHz：2402Mbps
Maximum Transmit power	2.4GHz： • +16dBm HE40 at -47dB DEVM • +19dBm HE40 at -43dB DEVM • +24.5dBm MCS9 HT40 at -35dB DEVM • +26dBm MCS7 HT20/40 at -30dB DEVM • +28dBm MCS0 HT20 5GHz： • +19dBm MCS11 HE160 at -43dB DEVM • +16dBm MCS11 HE80 at -47dB DEVM • +18dBm MCS11 HE80 at -43dB DEVM • +23dBm MCS9 VHT80 at -35dB DEVM • +24dBm MCS7 HT20/40 at -30dB DEVM • +26dBm MCS0 HT20
Receive Sensitivity	2.4GHz： • -69.0dBm(VHT40/MCS9/2SS) • -63.0dBm(VHT40/MCS11/2SS) • -68.5dBm(HT40/MCS9/2SS) • -63.0dBm(HE40/MCS11/2SS) 5GHz： • -64.5dBm(VHT80/MCS9/2SS) • -59.0dBm(VHT80/MCS11/2SS) • -64.0dBm(HE80/MCS9/2SS) • -58.0dBm(HE80/MCS11/2SS) • -58dBm(HE160/MCS9/2SS)

Specification

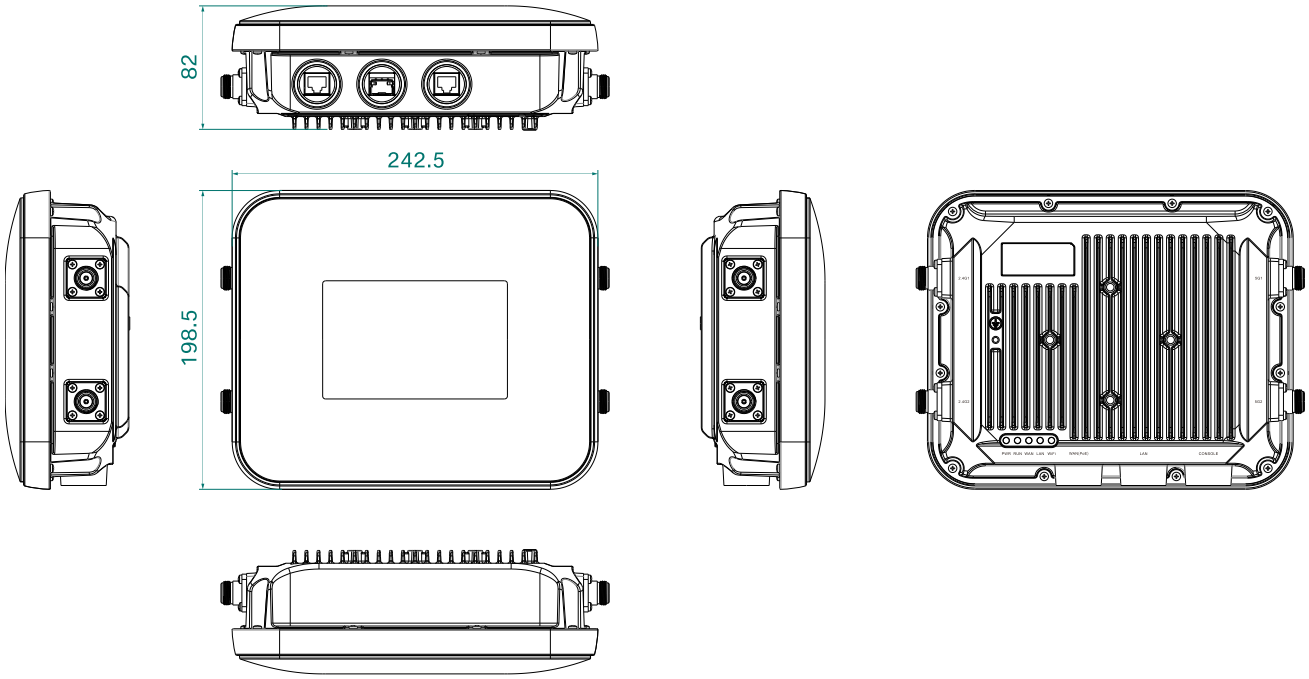
Interface	
Gigabit WAN (PoE)	1*10/100/1000Base-T(X) auto-sensing WAN/LAN multiplexing port, using RJ45, support full/half duplex, auto MDI/MDI-X; support standard PoE power supply, compliant with IEEE802. 3af/at standard
Gigabit LAN	1*1000Base-X LAN port, using SFP slot
Antenna Interface	2* 2.4GHz antenna Interfaces and 2*5GHz antenna Interfaces, both using N-K type (Female)
Indicator	Power indicator, operation indicator, WAN indicator light, LAN indicator, WiFi indicator
Power Supply	
Power Input	Standard PoE DC48V power receiving interface (DC44~57V input)
Consumption	<16W
Connection	RJ45 (WAN port)
Physical Characteristics	
Dimension	242.5×198.5×82(mm) (excluding antenna and hoop)
Installation	Pole installation
IP Code	IP67
Weight	About 1.68kg (excluding antenna and hoop)
Working Environment	
Operating Temp	-40℃~+70℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (no condensation)
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: common mode ±2kV, differential mode ±1kV; Network port: common mode ±4kV, differential mode ±2kV) IEC 61000-4-4 (EFT): Level 4 (power supply: ±4kV; network port: ±2kV)

Specification

Certification	CE, FCC, RoHS

Installation Dimensions

Unit:mm(first angle projection)



Ordering Information

Standard Model	1000M WAN Port	1000M LAN Port	2.4GHz Antenna	5GHz Antenna	Input Voltage
MIAP7500-4N25-GF-GT	1	1	2	2	PoE DC48V

Contact Us

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