

MX821-1F V2

802.11ax Industrial Explosion-Proof Tri-Band Wireless Access Point

Features

- Explosion-proof grade: Ex d IIB T6 Gb/ExtD A21 IP68 T80°C
 - Supports IEEE 802.11 g/gn/an/ac/ax
 - Maximum transfer rate 573.5Mbps (Radio1 2G) & 1200Mbps (Radio2 5G1) & 4800Mbps (Radio3 5G2)
 - Supports multiple application modes: Access Point, Client, WDS Access Point, WDS Client
 - Support web management, making equipment maintenance more convenient
 - Support wireless controller (AC) management, realize remote centralized configuration and upgrade management
 - Support 802.3bt protocol (POE+)
 - Support access to Maxon's information positioning system (tag, client mode positioning)
 - Support ceiling installation and wall-mounted installation, suitable for installation in different scenarios
 - The IP68 Protection Level is suitable for a variety of environments
- *Wireless controller needs to be purchased separately



Description

MX821-1F V2 802.11ax Industrial Explosion-Proof Tri-Band Wireless Access Point supports the 802.11g/gn/an/ac/ax protocol with a maximum rate of 6573.5Mbps to optimise the usage of bandwidth and network speed.

It supports multiple working modes of AP/Client, meets different application requirements to be flexibly applied to different network access plans, and supports wireless positioning function to meet the requirements of underground pipelines, factories and related areas for smart wireless coverage.

It supports seamless roaming technology with automatic detection and seamless switching to ensure users can enjoy the feelingless roaming under the signal coverage.

Its structural design fully considers of the applications in extreme industrial environments, and is designed to meet the IP68 Protection Level standard, making it an ideal choice for industrial-grade Wi-Fi coverage equipment.



23dBm high power

The maximum output power can reach 23dBm, and the external omnidirectional dual-band antenna brings excellent Wi-Fi signal transmission



No need to unpack design

Power supply and network access can be achieved by using product port components and connecting network cables



2x2 MIMO & 4x4 MIMO

Supports 2x2 MIMO & 4x4 MIMO standards



Ethernet access

Supports 2.5 Ethernet/2.5G SFP



Positioning service

Support wireless probe function, docking with positioning server, which can meet the positioning requirements of smart underground pipeline and factory



IP68

Protection Class IP68

Protection Class reaches to IP68, suitable for a variety of environments



High throughput

Maximum transfer rate 6573.5Mbps



POE powered

Supports a 100-meter Ethernet POE power supply, which is convenient for deployment and networking

Specification

HARDWARE	shell	304 stainless steel
	Size	294*229*97mm
	net weight	10.5kg
	Installation method	Ceiling & Wall Mounting
	Protection Level	IP68
	Explosion-proof grade	Ex d IIB T6 Gb/ExtD A21 IP68 T80°C
	Antenna gain	2G: 6dBi; 5G: 8dBi
	Antenna type	Dual frequency omnidirectional antenna
	Transmission distance	0~200m
	Power supply	48V 1.25A POE
	Maximum power consumption (W)	≤35W
	Maximum transmit power	2G: 23dBm; 5G: 23dBm
	Interface (WAN)	10/100/1000Mbps/2.5Gbps
	Interface (LAN)	10/100/1000Mbps/2.5Gbps or 2.5Gbps SFP
	indicator	Network port indicator
	Operating temperature	-40°C~80°C
	storage temperature	-40°C~85°C
	Operating humidity	5%~95%RH non-condensing
	Surge immunity	POE/GE: Common mode 4KV, differential mode 2KV
	Electrostatic discharge immunity	Contact discharge: 6KV, air discharge: 8KV
installation kit	1 x Outer Hex Tool 6 x Dual Band Omnidirectional Antennas 1 x 48V 1.25A POE Adapter 1 x AC Power Cord 1 x Product Instruction Manual 1 x Product Certificate & Warranty Card	
SOFTWARE	Maximum speed	6573.5Mbps
	Frequency Range	2G: 2412~2472MHz; 5G: 5180~5320MHz, 5745~5825MHz
	Channel width	20/40/80/160MHz
	Operating mode	Access Point, Client, WDS Access Point, WDS Client
	Security configuration	WPA2-PSK, hidden SSID, IP/MAC filtering
	application mode	AP, Client
	Configuration management	Support web configuration, support AC remote management, support SNMP management
	Ethernet Software Features	Support IPv4/IPv6 dual protocol stack DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMP v2c/v3, Syslog, TCP/IP, SSH, UDP, VLAN

SOFTWARE	Dynamic frequency selection	Support intelligent channel analysis & automatic optimal channel selection, support 5GHz DFS
	Smart Bandwidth Limit	Supports IP and MAC-based uplink and downlink rate limiting
	IoT expansion	Reserve UART interface to support IoT application expansion such as Bluetooth, ZigBee, UWB, etc.
	positioning service	Support wireless probe function, docking with positioning server, which can meet the positioning requirements in scenarios such as smart pipe gallery and smart factory
	other	Scheduled restart, QoS, Watchdog

Applications



petrol & oil



chemical factory



underground pipeline



coal & mines