

## 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℃
  - 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 waterproof 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 waterproof standard, making it an ideal choice for industrial-grade Wi-Fi coverage equipment.

# Nanjing MAXON O.E. TECH. CO., LTD

Add: 6/F, Building A3, Zidong International Creative Park, Zidong Road, Qixia District, Nanjing, China.



## 23dBm high power

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



## Positioning service

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



## No need to unpack design

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



## Waterproof level IP68

The waterproof level reaches IP68 and is suitable for a variety of environments



## 2x2 MIMO & 4x4 MIMO

Supports 2x2 MIMO & 4x4 MIMO standards



## High throughput

Maximum transfer rate 6573.5Mbps



## Ethernet access

Supports 2.5 Ethernet/2.5G SFP



## 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                |
|          | Waterproof            | 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 |

# MAXON

Link Of Your Think

Nanjing MAXON O.E. TECH. CO., LTD

TEL: 86-25-86380932

WEB: [www.mxcomm.cn](http://www.mxcomm.cn)

E-MAIL: [info@maxon.com](mailto:info@maxon.com)

## Nanjing MAXON O.E. TECH. CO., LTD

Add: 6/F, Building A3, Zidong International Creative Park, Zidong Road, Qixia District, Nanjing, China.

|                             |  |   |
|-----------------------------|--|---|
| HARDWARE                    | 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℃~80℃  |
|                             | storage temperature  | -40℃~85℃  |
|                             | 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<br>6 x Dual Band Omnidirectional Antennas<br>1 x 48V 1.25A POE Adapter<br>1 x AC Power Cord<br>1 x Product Instruction Manual<br>1 x Product Certificate & Warranty Card |
|                             | SOFTWARE   | Maximum speed   |
| 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<br>DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMP v2c/v3, Syslog, TCP/IP, SSH, UDP, VLAN  |
| 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. |   |

# MAXON

Link Of Your Think

Nanjing MAXON O.E. TECH. CO., LTD

TEL: 86-25-86380932

WEB: [www.mxcomm.cn](http://www.mxcomm.cn)

E-MAIL: [info@maxon.com](mailto:info@maxon.com)

# Nanjing MAXON O.E. TECH. CO., LTD

Add: 6/F, Building A3, Zidong International Creative Park, Zidong Road, Qixia District, Nanjing, China.

|          |                     |   |
|----------|---------------------|---|
| SOFTWARE | 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

---

# MAXON

*Link Of Your Think*

Nanjing MAXON O.E. TECH. CO., LTD

TEL: 86-25-86380932

WEB: [www.mxcomm.cn](http://www.mxcomm.cn)

E-MAIL: [info@maxonc.com](mailto:info@maxonc.com)