

MX6522A-ME8 Industrial Outdoor 5G WiFi6 CPE



Features

- Support 5G NR/NSR. NR SA: 2000(DL) / 766(UL); LTE: 487(DL) / 150(UL); WCDMA: 42(DL) / 11(UL)
- Support IEEE 802.11g/B/an/ac/ax standard
- WIFI max throughput 573.5Mbps (Radio1 2.4G) & 1200Mbps
- Supports bridge and routing modes. Flexible deployment of network architecture can be achieved by adjusting the device network mode.
- Supports intelligent QoS, powerful packet identification, priority setting, priority scheduling functions, to achieve priority transmission of voice, video, or designated packets to meet business needs
- Supports web management, making equipment installation and maintenance more convenient
- Support AC management to achieve remote centralized configuration and upgrade management
- Support 802.3bt protocol (POE++)
- Supports ceiling-mounted and pole-mounted installation, adapting to installation in different scenarios

Description

MX6522A-ME8 is an industrial-grade high-speed 5G wireless router CPE that supports 5G NR/NSR. It supports dual-band wireless with IEEE 802.11g/n/an/ac/ax protocol, and the theoretical max WiFi rate is 1773Mbps. Let users enjoy the high-speed and stable network by uplink cellular 5G access.

It has the feature of 2X2 MIMO high-power WiFi 6 with a coverage radius of 150-200 meters without blockage. It uses 2.5Gbps electrical port uplink to ensure high-speed transmission; it uses the POE++ remote power supply to make network deployment easier. Supports multiple working modes of AP/Client to meet different application needs.

WiFi supports point-to-point and point-to-multipoint wireless relay bridging functions to achieve wireless coverage in areas where wiring is inconvenient; supports fat and fit AP mode, wireless positioning functions to meet the needs of smart wireless coverage in underground pipelines, factories, parks, etc. It also supports seamless roaming technology, automatically detects and switches seamlessly to let users roam without awareness of network switch within the network signal coverage.

The product structure design fully takes into account the application in harsh environments, and the design complies with IP68 standards, making it an ideal choice for industrial-grade Wi-Fi coverage equipment.



26dBm high power

The highest output power can reach 26dBm, external omnidirectional 8dBi antenna brings excellent Wi-Fi transmission with max. coverage radius up to 200m



5G

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



Multiple installation

Flexible mounting design supports both ceiling and pole mounts



IP68 Protection

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



2x2 MIMO & 4x4 MIMO
Supports 2x2 MIMO & 4x4 MIMO standard



High throughput
5G throughput up to 2Gbps
WiFi up to 1773.5Mbps



10G Optical & 2.5G Ethernet Port
Multiple choices



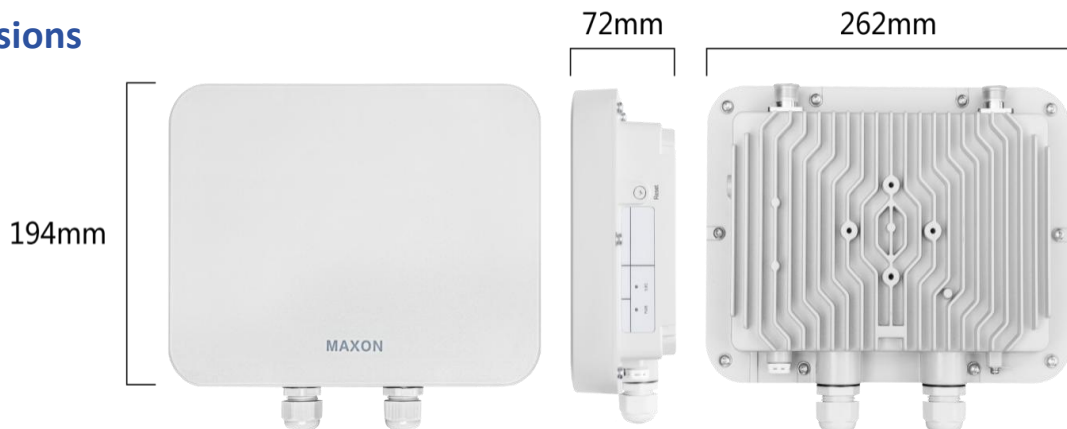
Industrial Design
4-core Qualcomm CPU, large memory

Specification

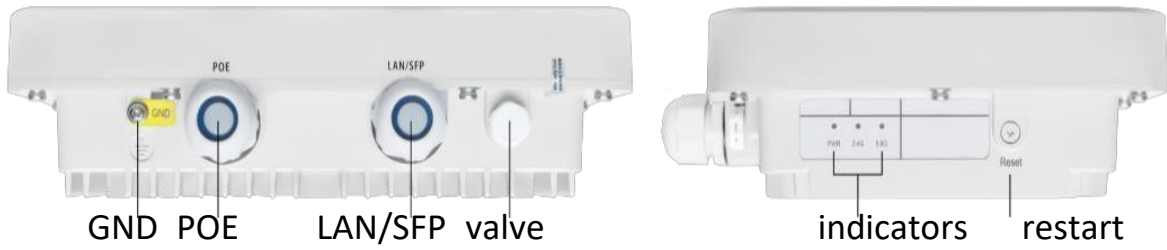
5G Module	
Standard & Frequency Band	5G supports SA/NSA, Sub-6: n1/3/5/8/28/41/77/78/79; LTE FDD: B1/3/5/7/8; LTE TDD: B34/38/39/40/41; WCDMA/HSPA+: B1/5/8
Communication Bandwidth (bps)	NR SA: 2000(DL) / 766(UL); LTE: 487(DL) / 150(UL); WCDMA: 42(DL) / 11(UL)
WiFi Parameters	
Working Agreement	IEEE 802.11a/b/g/n/ac/ax
Maximum Rate	1773Mbps
Frequency Range	2412~2472MHz; 5180~5320MHz, 5745~5825MHz
Channel Width	20/40/80M
Operating Mode	access point, client
Security Configuration	WPA2-PSK, WPA3-PSK, hidden SSID, IP/MAC filtering
Application Mode	AP、Client
Configuration Management	Support web configuration, remote IoT platform management, and SNMP management
Transmit Power	26dBm (±2dB)
Data Interface	
Ethernet Interface	1 x 10/100/1000/2.5Gbps adaptive WAN; 1 x 10/100/1000/2.5Gbps or 10G optical port adaptive LAN port
Serial Port	1 x RS-232/485
Hardware Interface	
Indicator Light	1 x SYS; 1 x 5G; 1 x 5.8G; 1 x 2.4G; 1 x Link; 1 x PWR
Antenna Interface	4 x 5G SMA antenna interface; 2x WIFI SMA interface
UIM/SIM Card Interface	1.8V/3V standard Micro SIM user card interface, built-in 15KV ESD protection

Reset Button	1xReset
Power Interface	Powered by PoE
Electrical	
Power Supply	POE48V++
Maximum Power Consumption (W)	<25W
Surge Immunity	POE/GE: common mode 4KV, differential mode 2KV
Electrostatic Discharge Immunity	Contact discharge: 6KV, air discharge: 8KV
Working Environment	
Operating Temperature	-40℃~70℃
Storage Temperature	-40℃~85℃
Installation Kit	6 x antenna; 1 x POE adapter; 1 x instruction manual; 1 x certificate & warranty card
Network Access	APN, VPDN
Access Authentication	CHAP/PAP/MS-CHAP/MS-CHAP V2
Ethernet Software Features	Support IPv4/IPv6 dual protocol stack, PPPoE, DHCP Server/Client, DNS, HTTPS, IPv4, LLDP, Proxy ARP, SMTP, SNMP v2c/v3, Syslog, TCP/IP, SSH, UDP, VLAN
DTU	
Safety	Firewall: Stateful Packet Inspection (SPI), prevent Denial of Service (DoS) attacks, filter multicast/Ping detection packets, access control list (ACL), support NAT, PAT, DMZ, port mapping, virtual server, L2TP, PPTP, ARP protection attacks, DMZ (demilitarized zone), MAC address filtering
Configuration Management	Supports local or remote HTTP, Telnet, SSHD methods, supports local or remote WEB, TFTP upgrades, supports local system logs, status query, and restart, Support TCP, UDP transparent transmission mode, TCP Server mode

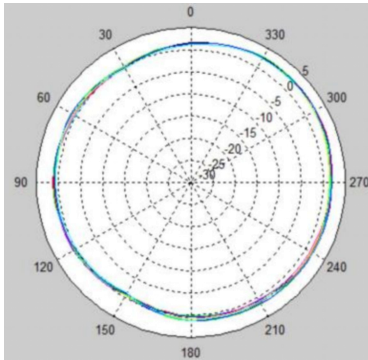
Dimensions



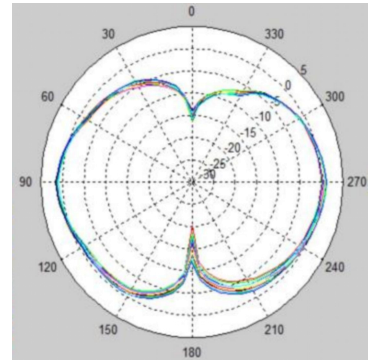
Connector



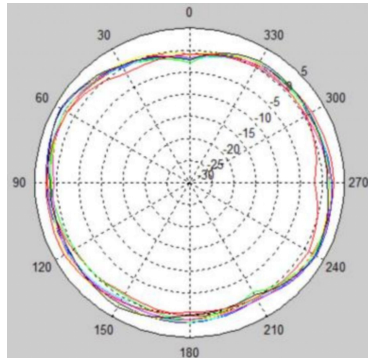
Antenna Radiation Pattern



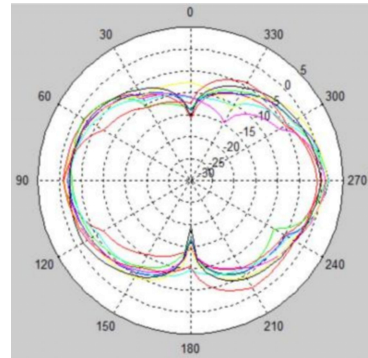
2.4G horizontal pattern



2.4G vertical pattern



5.8G horizontal pattern



5.8G vertical pattern

Application

