



MG5

Outdoor Mobile LTE Gateway

All in One Connection for Real-Time Visibility.

Datasheet



LTE-M

NB-IoT

GPS



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PRODUCT OVERVIEW

MG5 Outdoor Mobile LTE Gateway serves as a constant companion to assets throughout the supply chain, working with the Bluetooth low energy tags and sensors, collecting and uploading the Bluetooth data in real-time to your cloud.

It converts vehicle activities into actionable insights for your solutions to boost your business and even revolutionizes supply chain management by ensuring sustained real-time visibility, based on Bluetooth, LTE-M & NB-IoT communications, and GPS tracking, empowering stakeholders to make decisions in a more effective way, to enhance operational efficiency, and to deliver excellent customer experiences.

KEY FEATURES

- LTE-M / NB-IoT Network Flexible Switching

MG5 can support two types of medium to low rate cellular communication LTE-M and NB IoT, which can effectively and quickly compatible with local networks in different countries or regions; Also, it can adapt to the requirements of different reporting rates or working modes, in order to flexibly switch network mode, providing effective data for users, and saving power consumption or data traffic costs;

- GPS Outdoor & LBS Indoor Positioning Seamlessly

In addition to outdoor GPS positioning and Bluetooth scanning, the MG5 also supports Bluetooth low-energy broadcasting, so that when GPS signals cannot be covered in indoor warehouses and other environments, the presence of the MG5 position can be detected through Bluetooth LBS positioning, achieving seamless switching between indoor and outdoor, ensuring data continuity and visibility.

- Gateway Real-time Mode or Tracker Low-energy Mode Switchable

The cellular reporting interval can be configured based on your own working mode; If you need real-time location and temperature status of assets during transportation, you can set up high-frequency without worrying about energy consumption with an external power supply, which is gateway real-time mode; If you prefer low energy and wireless deployment, the uploading interval can be set once a day, etc which is the tracker low-energy mode;

- Amazon AWS, Microsoft Azure, Nordic nRF Cloud, etc.

After adaptation, MG5 supports Amazon AWS and Microsoft Azure, and Nordic nRF cloud services such as FOTA and positioning, effectively promoting the rapid development, hardware compatibility, creative feasibility, and PoC testing and deployment by solution integrators, shortening development cycles, meeting terminal scenario implementation, commercial promotion, etc;



- Bluetooth Scanning & Built-in Sensors

MG5 supports Bluetooth communication and data filtering, transmitting environmental sensing data to remote servers, such as Bluetooth signal strength of asset tags, temperature and humidity of cold chain transfer boxes, door open&close, fuel level detection, etc. Under LTE-M network, it supports about 100 Bluetooth tags online simultaneously; In addition, the MG5 has a built-in accelerometer, temperature sensor and a barometer(optional), which can also provide necessary data for solution integrators;

- Wide Voltage Power Supply for Real-time Reporting

MG5 supports vehicle wide voltage 8V~52V power supply, effectively ensuring continuous and normal operation of equipment and real-time data transmission. In case of abnormal situations, such as abnormal temperature data from sensors inside the carriage, illegal opening of doors, abnormal ignition of engines, or cutting of external power supply wires, the data will be immediately reported, so that administrators can quickly respond and take remedial measures;

- Data Security & Data Back-up in Disconnection & Automatic Reconnection

With MQTT protocol, MG5 supports SSL/TLS data encryption, ensuring data security while uploading complete and effective data. So when the device passes through an environment with weak network access, such as remote roads or underground tunnels, although cellular data cannot be uploaded then, Bluetooth data could be received and saved normally. When the device returns to a normal network area, MG5 can automatically reconnect the base station and cloud server, and resume uploading;

- Cellular Module Supports Multi-operator Access & Regulatory Certification

- AT&T, Verizon, Bell, China Telecom, Deutsche Telekom, KDDI, Telstra, Vodafone, etc.
- GCF, PTCRB, FCC (USA), CE (EUR), UKCA (UK), ISED(CAN), SRRC (CHN), ACMA RCM (AUS), NCC (TWN), MIC (JPN), MSIP (KOR), (IND) and more.