

MT Tracker/Gateway Reference Device Architectures

Reduce IoT project costs and time to market with proven designs that are ready for final customization



MT Series Reference Architectures are cost optimized, easy to customize, and leverage the latest cellular technologies to deliver real time actionable data. They are the ideal foundations for IoT solutions tasked with tracking and monitoring powered assets at scale across industries and use cases.

The 4201 architecture is ideal for track and trace workflows requiring a Bluetooth-enabled Cat M1/NB-IoT cellular IoT gateway featuring multiple I/O and embedded GPS.

For use cases not requiring Bluetooth the 4000 architecture is recommended. The 4000 operates on Cat 1 (local variant), 3G, and 2G. With multiple I/O configurations both architectures can support various needs including Ignition relay, starter disable, temperature probes, door monitor, emergency button and other general I/O needs.

For regional track trace and recovery use cases confined to 2G cellular networks the 2000 architecture provides low-cost access to advanced feature set and capabilities. MT reference architectures are a smart option for businesses seeking the quickest path to market without sacrificing quality or features.

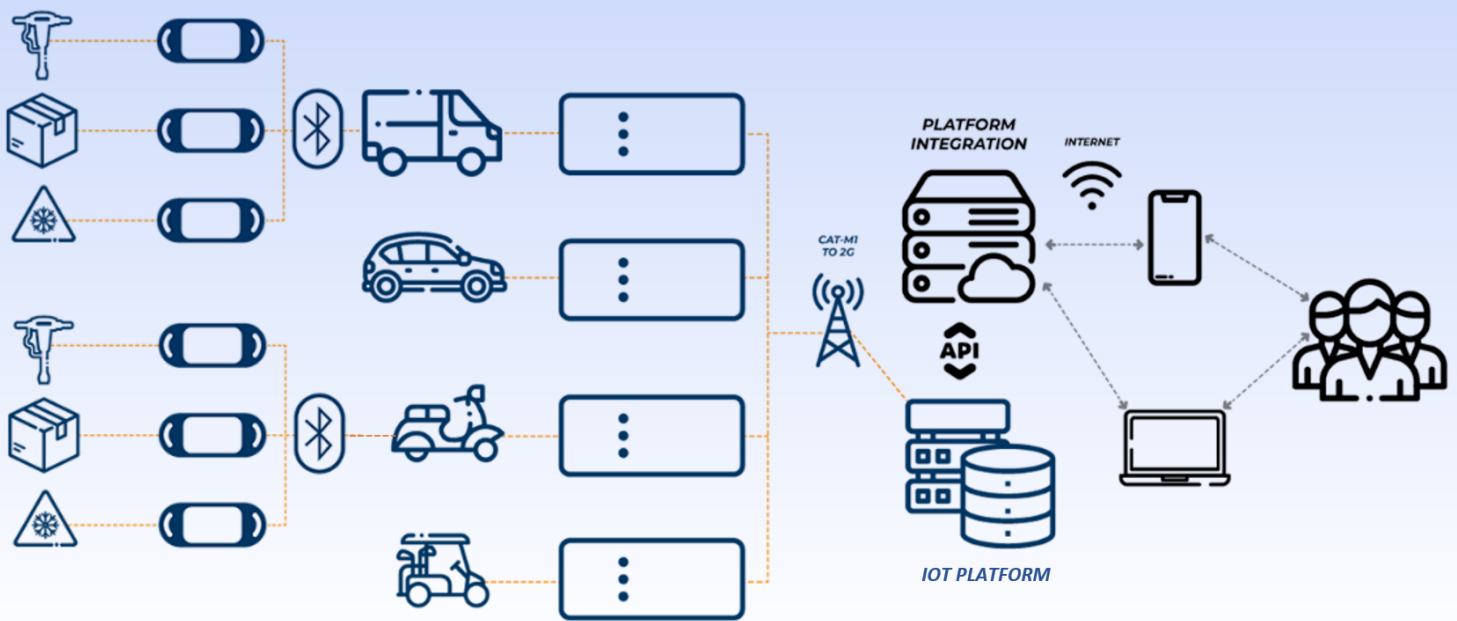
Main Features

- Bluetooth Beacon Gateway*
- Real-time tracking and notifications
- Starter-disable; custom alerts
- eVehicle compatible
- IoT platform integration
- Over-the-air updates (FOTA)
- Single source reporting of actionable data for multiple tagged assets

*Standard in 4201 Architecture

Powered Architectures in IoT Applications

When tracking or monitoring assets that have an engine, a powered asset tracking device is recommended. Powered asset trackers are great for trailers, tractors, trucks, autos, motorcycles, carts, construction equipment, or any other asset that has a power source but may not be on power all the time. These trackers also include small backup batteries that allow them to operate for short periods without power.



Advantages and Considerations

- Smaller in size
- Battery life 5-6 months
- Once-a-day update (when stopped)
- Short-interval reporting (when in motion)
- Wires to hook to power sources
- Track hours in use/not in use
- No battery life stats
- Charges when plugged into energy source

Which Device Architecture is Right for You?



MT4201

Cat-M1, NB-IoT, 2G

GPS/GLONASS

Bluetooth 5.1

Full IMU

8-80 VDC

3.7V Li-ion rechargeable

IP67

98 x 51 x 20mm

FCC/IC, Verizon



MT4000

Cat1, 3G, 2G

GPS/GLONASS

3-axis Accelerometer

9-24 VDC

3.7V Li-ion rechargeable

IP67

98 x 51 x 20mm

FCC/IC, PTCRB, Verizon, US Cellular, RoHS, CTIA



MT2000

2G Quad Band

GPS/GLONASS

3-axis Accelerometer

8-33 VDC

450 mAh

ABS UL-94

76 x 43.5 x 15mm

ANATEL

Create Your Custom IoT Solution

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