

# 4G LTE Cat 1 + GNSS + BLE Module



## Description

Our 4G + GNSS+ BLE module is an ultra-low power, low-cost LTE Cat 1bis module designed for Telematics, Asset Tracking, Industrial IoT, and connected embedded applications. The module integrates LTE connectivity, GNSS positioning, BLE 5.3, and indoor location tracking support into a compact form factor optimized for M2M and IoT deployments.

It supports LTE bands B1, B3, B5, B8, B40, and B41 with download speeds up to 10 Mbps and upload speeds up to 5 Mbps.

## Features

### 4G LTE Features

- 3GPP Release 14 Cat.1 / Cat.1bis compliant
- LTE-FDD: B1, B3, B5, B8
- LTE-TDD: B40, B41
- Maximum DL: 10 Mbps
- Maximum UL: 5 Mbps
- USB 2.0 High-Speed interface up to 480 Mbps
- USIM, eSIM and softSIM support
- UART, SPI, I2C and I2S interfaces

### GNSS Features

- Dual-band L1 + L5 support
- Supports GPS, NavIC, Galileo and Beidou
- 2.5m CEP positioning accuracy
- Tracking sensitivity up to -165 dBm
- Update rate from 1 Hz to 10 Hz

### BLE Features

- BLE 5.3 compliant
- 2 Mbps Bluetooth support

- 64 MHz Arm Cortex-M4 processor

### **Software Features**

- Supports TCP, UDP, TLS, SSL, MQTT, CoAP and HTTP(S)
- FOTA support
- FreeRTOS based OS

### **Value Proposition**

- Compact all-in-one LTE + GNSS + BLE solution
- Designed for telematics and industrial IoT applications
- Supports NavIC for enhanced India-focused positioning
- Ultra-low power architecture
- Supports OTA firmware upgrades
- Cost-effective Cat 1bis platform