

Cellular Tracker & Gateway – Preliminary data

Off the shelf battery powered telematics device

The Cellular Tracker & Gateway uniquely provides both GNSS location data and access to local BLE devices in a single, compact, low-power device.

GNSS capabilities are provided by an on-board uBlox NEO-M8N module with patch antenna, providing location fixes using up to three concurrent constellations of GPS, Glonass, Galileo, BeiDou satellites.

Additionally, an on-board Murata 1DX module provides both 2.4GHz WiFi and BLE capabilities, supported natively by impOS. The WiFi can be used both for improving location accuracy – particularly in challenging urban environments – and also as an alternative internet connection to reduce cellular data usage.

The BLE radio opens up many possibilities for hybrid use cases, for example forwarding data from low-cost BLE sensor devices, augmented with location information, to the cloud.

Using the built-in impOS power management APIs, applications can take advantage of fine-grained power control over the radios and deliver long battery life in complex applications, with ultra-low power microamp sleep modes.

impC module support

- Supports all configurations of impC001 and impC002 modules
- Status LED and BlinkUp™ phototransistor for first-time configuration

On-board devices

- uBlox NEO-M8N GNSS module with patch antenna
- ST microelectronics accelerometer, with wake-from-sleep functionality
- ST microelectronics temperature/humidity sensor
- Murata 1DX 2.4GHz WiFi/BLE combo module with PCB antenna
- Piezo sounder

Power

- 3x AA Lithium (Energizer L91 or equivalent)

Housing

- IPX7 rated housing with separate battery compartment

