

# BeWhere BeSol



**BeSol (B1-MIOT-GA/ B1-MIOT-MR)** by BeWhere Inc. offers a full service asset tracking solution. Utilizing the latest in Cellular technology the **BeSol** has the lowest power and longest battery life so you can track, monitor and manage a wide variety of assets like never before, from durable goods to perishable goods. **BeWhere BeSol** is designed as a full stack solution and comes with device, network and application ready. Increase your productivity, ROI and visibility.

**Connect, Deploy, Visualize Now!**

## Features

- Available in two variants:  
**B1-MIOT-GA** (M1 / NB1)  
**B1-MIOT-MR** (M1 / NB1 / 2G)
- Off-the-shelf deployment
- Real-time tracking
- Configurable alerting
- Motion tracking, triggering updates
- Geo-Location
- GNSS: GPS / QZSS, GLONASS , Galileo enabled
- IP67 Rugged & dust / water-proof enclosure
- Temperature
- Humidity
- Pressure
- Light
- Accelerometer

## Benefits

- Ultra-low power platform
- Maintenance free, Rechargeable long battery life (10+ years with higher resolution update rates i.e. every 5-15 minutes when in motion).
- Low device cost
- Low deployment cost
- No reader needed
- Full coverage (deep indoor and rural areas)
- Support for a massive number of devices



## General

Communication	LTE CAT M1 / CAT NB1 / 2G
Location Technology	High accuracy with 3 concurrent GNSS (GPS, Galileo, GLONASS)
Operating Voltage	3.5 – 4.2 V
Solar Powered	3.7 V 3000 mAh, Rechargeable <b>Lithium-Ion</b> battery

## GPS

Receiver	72-channel u-blox M8 engine GPS/QZSS L1 C/A, GLONASS L1OF Galileo E1B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN.
Sensitivity	Tracking & Navigation: –165 dBm Cold start: –146 dBm Hot start: –155 dBm
Accuracy	Position accuracy 2.5 m CEP

## Cellular

Data	LTE CAT M1 Packet Data (CoAP/UDP) / CAT NB1 Packet Data CoAP/UDP
Operating Bands & Carriers	<b>Globally Available</b> Cat <b>M1/NB1</b> (Bands 1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19, 20, 25, 26,28) <b>Multi Region</b> Cat <b>M1 / NB1 /2G</b> (Bands 2, 3, 4, 5, 8, 12, 13, 20, 26 ,28), <b>2g Bands</b> GSM 850 MHz, E-GSM 900 MHz, DCS 1800 MHz , PCS 1900 MHz (Bell, Telus, AT&T, Verizon, Telstra, Orange, KPN, T-Mobile USA)

## Sensor operation range (full accuracy)

Environmental	Temperature [ -40, +85; Absolute accuracy $\pm 0.5$ °C ] Humidity [ Absolute accuracy $\pm 3$ %RH ] Pressure [ 300...1100 hPa, Absolute accuracy $\pm 1$ hPa ]
3-Axis Accelerometer	Motion, shock and tilt triggers

## Certification

**Certifications:** FCC, IC, CE, AT&T, Verizon, Bell, Orange, T-Mobile  
**Targets:** DT, Telefonica, Vodafone, Ericsson

**Vibration and Shock:** MIL-STD-810G  
**Ingress Protection:** IP67

## Physical

Dimensions	(100.6 x 56.6 x 33.7) mm
Weight	0.4 lb

## Environmental operating range

Temp	-20 to +60C (batteries, enclosure)
Humidity	95% R.H. @ 50C non-condensing