



Hub Datasheet



OVERVIEW

Typical applications	Ideal for tracking asset movement and distribution across a site or within a defined location.
Use cases	<ul style="list-style-type: none"> • Monitor specific locations on a site for a clearer view of asset distribution across a site. • Track, monitor and optimise asset location flexibly, with easy installation. • Ruggedised and weatherproof enclosure for indoor and outdoor location monitoring.

GENERAL SPECIFICATIONS

Dimension	72x72x18.5 mm
Weight	113g without cable
Battery life	NA
Location updates	Immediate with timestamp and position with newly detected assets, or every 10 minutes with no asset movement.

OPERATING ENVIRONMENT

Operating temperature	-20°C to +60°C
Storage temperature	-40°C to +75°C
Operating humidity	5% to 95% non-condensing
Battery discharge temperature	-20°C to +60°C

INTERFACES

Radio communication frequency	Bluetooth Smart 5.2
Usage logging or general input	3 0-60V analog input voltage, or 2 0-48V analog input voltage and 1 IO (open drain output) Trigger value for usage log is >8 Volt to start usage logging,
Configuration	Automatic OTA (Over The Air update) firmware and configuration updates
Sensors	Accelerometer, Gyro, GNSS and temperature

GPS SPECIFICATIONS

GPS, Glonass, Galileo and BeiDou enabled GNSS module with ultra-high (167dBm) sensitivity and SBAS support. Quick fix using A-GPS

Based on the Ublox NEO-M8 GPS module

Differential GPS enhancements:

- Satellite based augmentation system (SBAS using EGNOS in Europe) for increased accuracy
- Assisted GPS (A-GPS) enabled for ultra-low TTFF (Time To First Fix)
- 1.2 m accuracy under optimal condition

MOBILE CONNECTIVITY SPECIFICATIONS

Quad band GSM, Cat-M1 LTE connectivity supporting bands B1, B3, B8, B9, B20 and B28 with 2G fallback

GSM network positioning based on antenna site identification

Global support for antenna site triangulation and positioning

Ca. 97% coverage for Europe's GSM network (in terms of GSM positioning)

Timing advance support

CERTIFICATIONS & APPROVALS

IP grade	IP67
Approvals	CE, RoHS, REACH,UL
Type Approval	UN ECE R10 Rev.6

