

BQ15

LTE-M OBDII tracker BQ15

BQ15 is a simple plug-and-play OBDII tracker, providing seamless real-time GPS location insights and collecting valuable driving data to enhance safety and efficiency. With features like location monitoring, driver behavior analysis, fuel efficiency tracking, and crash data collection, it supports optimal vehicle management and improves operational efficiency, cost savings, and overall vehicle performance. It's the perfect companion for fleet managers aiming for smooth, reliable vehicle operations.



Features



LTE CAT-M1/NB and 2G



OBDII Interface



Vehicle Data reading



Driving Behavior
Detection



Crash data



BLE 5.0

SPECIFICATIONS

NETWORK

Data Support	TCP, UDP, SMS
LTE CAT-M	B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/ B19/B20/B25/ B26/B27/B28/B66/B85
LTE CAT-NB	B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/ B19/B20/B25/ B26/B27/B28/B66/B85
LTE Data	CAT-M: DL: 589Kpbs, UL: 1119Kbps
GSM/3G	850/900/1800/1900 Mhz
EGPRS Data	DL: 296Kpbs, UL: 236.8Kbps
SIM Card	1.8V

GNSS

Location Technology	GPS Engine GPS/Glonass/Galileo/BeiDou GPS/QZSS L1 C/A, Glonass L10F BeiDou B1, Galileo E1 B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
Concurrent GNSS	3
Update Rate	1 Hz
Channels	66
Tracking sensitivity	-160dBm
Cold Start Open Sky	30S Open Sky
Aided Start	2S Open Sky
Reacquisition	1S
Assisted GPS	Supported
Antenna	Patch Internal

ELECTRICAL

Operating Voltage	8-40V DC operational for 12V & 24V Vehicle support per SAE J1455 3mA 12V (Sleep)
Power Consumption	60mA 12V (Power Save) 120mA 12V (Active Tracking)
Backup Battery	LI-PO 220mAh Battery Recharging Range is 0 to +45°C

ON BOARD

CPU	ARM Cortex M4
Flash Memory	8Mbit
3D Accelerometer	On Board

INTERFACES

Input	Direct Connection to J1962
Output	No
Status LEDs	GNSS, Network, Power
BLE 5.0	for Wireless Sensor

CONNECTORS

Connector Type	J1962
Mini USB	Pogopin (configuration/debug)
Power Switch	Device Power ON/Off Switch
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Internal (4FF)

PHYSICAL

Dimensions	58(L) x 48(W) x 24(H)mm
Weight	90g

ENVIRONMENTAL

IP Rating	IPX2
Operating Temperature	-40 ~ +85° C (without Backup Battery) -10 ~ +50° C (with Backup Battery)
Humidity	95%RH @ 50° C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B
RoHS	Compliant

GENERAL

Communication Mode	LTE/GPRS and TCP/UDP/SMS
Location Technology	66 Channels GNSS
Operating Voltage	12 and 24 Volt Vehicle Systems

KEY FEATURES

- Designed for UBI/PAYD/PHYD
- Packet data (TCP/IP, UDP) & SMS support
- Internal GSM Antenna for better security
- User Profiles for controlling via SMS
- GSM jamming detection
- High Sensitive GPS engine
- Internal or external antennas option
- GPS and Glonass support
- Low power consumption in sleep mode
- Back up battery option