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GV651CEU

LTE Cat 1bis waterproof tracker supporting wide voltage and BLE



- **LTE Cat 1bis with 2G Fallback**
- **IP67, IP69K**
- **Dual Band GNSS**
- **Optional External GNSS Antenna**

- **Ruggedized Case**
- **8 ~ 90V DC**
- **BLE 5.2**
- **Multiple I/O interfaces**
- **1-wire interface**
- **RS485/RS232**
- **5800mAh Battery**
- **Scheduled Report**
- **Geo-fences**
- **Motion Detection**
- **Tow Alarm**
- **OTA Control**

GV651CEU is an LTE Cat 1bis tracker tailored for equipment and trailer tracking. Boasting a rugged, waterproof design, it delivers reliable performance in harsh environments and runs for up to 4 months without external power, ensuring non-stop visibility of valuable assets. Equipped with multiple interfaces, it supports a variety of pre-integrated accessories for driver identification, temperature monitoring, engine control, and more. An optional external GNSS antenna makes it ideal for installation on trailer walls or in trailers with weak/no GNSS signals.

Flatbed Truck Tracking



Trailer Tracking



Equipment Monitoring



Queclink | SPECIFICATIONS

General

Dimensions	148mm(L) x 91mm(W) x 39mm(H)
Weight	402.9g(14.21oz)
Backup Battery	Li-ion, 3.7V, 5800 mAh, 18650 battery pack
Operating Voltage	DC 8V to 90V
Waterproof	IP67, IP69K
Operating Temperature	-30 °C ~ +80 °C -40 °C ~ +85 °C for storage
BLE	Support BLE 5.2 protocol
Region	EMEA
Certification	CE(Planning)

Interfaces

Digital Input	1 x positive trigger input for ignition detection(0V~50V)
Configurable Input/Output	5 x configurable Digital input/Digital output(0V~50V)
Analog Inputs	2 x analog input (0~32V)
1-Wire interface	1 x 1-Wire, support 1-wire interface to support temperature sensor/Button and so on(Maxmum 8 channels)
Serial Port	1 x RS232 serial port 1 x RS232/RS485 serial port
Power Output	1 power output (3.3V) for external devices
Cellular Antenna	Internal only
GNSS Antenna	Internal and optional external
BLE Antenna	Internal only
LED Indicators	CEL, GNSS, PWR

LTE

Operating Band	LTE Cat 1 bis: B1/3/5/7/8/20/28
Data Transmission	Max 10 Mbps (DL)/Max 5 Mbps(UL)

GSM

Frequency	GSM/EDGE: B2/B3/B5/B8
Data Transmission	GPRS: Max 85.6Kbps (DL)/Max 85.6Kbps(UL)

GNSS

GNSS Type	All-in-one L1/L5 dual-band GNSS receiver; AGPS supported
Constellation Support	GPS, BEIDOU, GLONASS, Galileo
Sensitivity	Autonomous: -148 dBm Hot start: -163 dBm Tracking: -165 dBm
TTFF (Open Sky)	Cold start: 24s average Hot start: 1s average

Connectivity

Model	BLE 5.2
Type	2.4GHz
Remark	BLE 5.2, worked as a BLE gateway to connect accessories like beacon, temperature sensor, door sensor, etc.

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status based on preset time intervals, distance, mileage, or a combination of these settings
Geo-fences	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
Speed Alarm	Flexible speed monitoring for unusual speed alarm
Low Power Alarm	Alarm when backup battery is low
Power On Report	Report when the device is powered on
SOS Alarm	Alarm message report triggered by digital input in emergency situation
Tow Alarm	Alarm for tow event in ignition-off state
Virtual Ignition Detection	Based on accelerometer
Special Alarm	Special alarm based on digital/analog inputs
Motion Detection	Motion alarm based on internal 3-axisaccelerometer
Remote Control	OTA control of digital outputs