GES100CG

LTE Cat 1 bis / GSM Disposable Waterproof GNSS Bolt Seal

- ISO17712 Compliant
- LTE CAT 1 bis
- Anti - tamper Detection



The GES100CG is an LTE/GSM bolt designed for full monitoring scenarios such as containers. Its single-use design ensures that it cannot be tampered with throughout the tracking process. The ISO 17712-compliant, IP67-compliant housing design ensures that the GES100CG can be used properly on shipping containers. After the lock is inserted and the device is powered on, the device can achieve three months of endurance with a reporting frequency of two reports per day. Anti-tamper detection allows the device to immediately trigger an alarm and switch the reporting frequency when clipped.

- LTE Cat 1 bis / GSM
- GNSS Positioning
- Ruggedized Case (ISO17712 Compliant)
- IP67 Waterproof
- Compact Size
- Easy Installation
- LBS Positioning
- Anti-Tamper Detection
- Battery Level Report
- Scheduled Timing Report
- Wakeup Report
- Power On Report (Vibration)
- OTA Control

Applications

Container Security



Trailer Tracking



General Specifications

Dimensions	78(L) x 34(W) x 95(H)mm (Appearance size, length is the total length after locking) 3.1 (L) x 1.3 (W) x 3.7(H)inch inch (Appearance size, length is the total length after locking)
Weight	200g
Backup Battery	LiMn-Polymer 1600 mAh, 3V
Standby Time	2 report/day 90 days
Waterproof	IP67
Operating Temperature	-30 °C ~ +70 °C -40 °C ~ +80 °C for storage
Buffer Messages	Up to 600 buffer messages
Certification	FCC (TBD), CE (TBD), Anatel (TBD)
Region	EMEA & Latin America

GNSS Specifications

GNSS Type	All-in-One GNSS receiver
Constellation Support	GPS, Glonass, Galileo, Beidou
Sensitivity	Cold start: -149 dBm Hot start: -160 dBm Tracking: -165 dBm
Position Accuracy (CEP)	Autonomous: < 2m
TTFF (Open Sky)	Cold start: 26s average Hot start: 1s average

LTE Specifications

Operating Band	Cat 1 bis: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28
Data Transmission	Cat 1 bis: LTE-FDD: Max 10Mbps (DL)/Max 5Mbps (UL)

Interfaces

Power On Indicator	When the lock is inserted, the device boots and vibrates as notification
Cellular Antenna	Internal only
GNSS Antenna	Internal only

GSM/GPRS/EDGE Specifications

Frequency	850/900/1800/1900 MHz
Data Transmission	EDGE: (DL)236.8Kbps/(UL)236.8Kbps GPRS: (DL)85.6Kbps/(UL)85.6Kbps

Air Interface Protocol

Transmission Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status based on preset time intervals setting
Low Power Alarm	Alarm when backup battery is low
Power On Report	Report when the device is powered on
OTA Support	Remotely upgrade and modify configurations

