BS TECHNOTRONICS PRIVATE LIMITED

TPL
BS ®
Innovation Unlimited
Simplifying IoT Solutions

4G LTE & GNSS Asset Tracking Device

➢ Logistics & Rental Vehicles
➢ Construction Equipment
➢ Heavy Equipment
➢ Container Tracking
➢ Valuable Assets
➢ Sea Containers Tracking
➢ Parcel Tracking
➢ Leasing Vehicles Tracking
➢ Generators Tracking

BSTPL-13L

4G LTE+2G+GNSS	GEOFENCE
IP65	3 AXIS ACCELERO
7800mAh BATTERY	ALERTS
eSIM/Micro SIM	FOTA & OTA

BSTPL-13L, is an Asset Tracking Device made with combination of CAT1 4G LTE and GNSS technologies. Built with most advanced Microprocessor, BSTPL-13L provides additional interfaces to customers with Bluetooth 4.0 and 3 Axis Accelerometer. With built-in high quality 4G LTE Module, BSTPL-13L supports all the 4G LTE bands and 2G GSM networks operating on 850/900/1800/1900 MHz frequency and supports Class 12 GPRS. Highly sensitivity GNSS module with 33 Tracking and 99 Acquision Channels with -167 dBm gain provides accurate location data in toughest and difficult conditions.

With no installation required, BSTPL-13L is easy to use and provides highly reliable and accurate data to customers like Location Information, Speed, Direction, Alerts and Other information related to external sensors interfaced. BSTPL-13L equipped with 7800 mAh Li-Ion internal battery with built-in charging mechanism and uses external 5V DC power adaptor for charging. With rugged ABS enclosure meeting IP65 standard, the device has built in GSM and GPS antennas. BSTPL-13L has provision for magnet mounts. LED indication provided for GSM, GPS Networks, Battery Charging Condition and Battery percentage.

BSTPL-13L supports SIM interface of both eSIM and Nano SIM. BSTPL-13L, as an asset tracking device can be used in various applications starting from cargo tracking to container tracking and lease / hire vehicles tracking to heavy equipment / construction equipment tracking. The back-up time provided by internal battery depends on the polling intervals and amount of time the tracking is needed.

BSTPL-13L Provides alerts for Low Battery, Geofence, Movement, Box Tamper and alerts related to external sensors connected. With automatic fall back from 4G to 2G and 2G to 4G, BSTPL-13L has provision for storing 100K data packets when no GSM network is available

http://bstechnotronics.com/

Features

- Based on advanced Microprocessor
- Provision for Linux User Code*
- 64Mb Storage when no GSM / GPRS network
- Supports 4G B1/B3/B5/B7/B8/B20/B28/B38/B40/B41
- Supports Quad Band 2G GSM and A-GPS
- Bluetooth 4.0
- 5V DC Input External Power Adaptor
- Built-In7800 mAh Li-Ion Battery
- Secured Over The Air (OTA) Configuration
- Multi Slot Class 12 GSM / GPRS Module
- Supports TCP / IP; FTP; HTTP; HTTPS, MQTT & MQTTS Protocols
- Supports eSIM with Profile Switching. Optional Nano SIM
- Supports GPS, GLONASS & GALILEO
- Supports GAGAN and AGPS
- 33 Tracking and 99 Acquision Channels
- GPS Receiver Sensitivity: -167 dBm
- Multiple Operating Modes

- 3 Axis Accelero & Gyrometer
- External Power Adaptor
- LED Indication for Power, GSM/GPS Network
- Status and battery charge condition
- GPRS to SMS Fallback
- Sleep Mode Function
- Box Open / Close Detection
- 4G GSM Internal Antenna
- GNSS Internal Antenna
- Nylon Plastic Enclosure complying to IP65
- Alerts For, Low Battery, Box Tamper, Vibration, Movement, Geofence, Harsh Breaking*, Harsh Acceleration and Harsh Turning
- Type C port for charging
- Local and Over The Air (OTA) Configuration
- Local and FOTA Firmware update through FTP & LWM2M

Technical Specifications

SPECIFICATION	DESCRIPTION
Internal Memory	1MB internal memory and 64Mb external memory. Expandable up to 128Mb.
Power Supply	External 5V DC Power Adaptor, USB Type C
Internal Battery	3.7V / 7800 mA. Li-Ion Battery
4G LTE GSM Module	4G B1/B3/B5/B7/B8/B20/B28/B38/B40/B41 2G 850/900/1800/1900 MHz Sensitivity: -109dBm. Auto fall back from 4G to 2G & 2G to 4G. Supports 10 Mbps (DL) and 5 Mbps (UL)
GPS Module	Supports GPS & GLONASS 33 Tracking and 99 Acquision channels, -167 dBm Sensitivity, Horizontal Position Accuracy of 3 meters CEP @ -130 dBm (Open to sky)
SIM Support	eSIM with dual profile and automatic profile switching. Provision for Nano SIM
Communication Protocols	TCP/IP, HTTP, FTP, MQTT & MQTTS
Charging Port	USB Type C charging port

SPECIFICATION	DESCRIPTION
Sensors	3 Axis Accelero & Box Open / Close sensor
Antennas	Internal GSM and GNSS Antennas
Mechanical	Nylon Enclosure Complying to IP65. Dimensions: 88 x 66 x 38 mm
Environmental	Operating Temp. -25°C to +85°C Storage Temp. -40°C to +85°C Humidity: 95% Non-Condensing
LED indication	GSM Network, GPS Network, Battery charging & Percentage status
Configuration & Firmware	Local & Over The Air Configuration Local and FOTA Firmware update through FTP & LWM2M
Standards	CE and IP65
Alerts	Low Battery, Movement, Vibration, Box Tamper, Geofence, Harsh Breaking*, Harsh Acceleration* and Harsh Turning

Note: BS Technotronics Private Limited (BSTPL) reserves the right to alter this description or to adapt it to technical conditions at any time.