BS Technotronics Private Limited

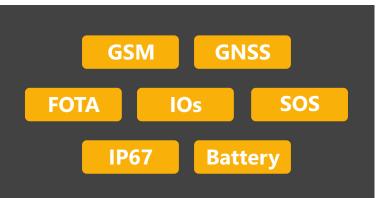**Innovation Unlimited**

Vehicle Tracking Device

BSTPL - 15

ISO 9001:2015

Basic GPS Tracking Device

GSM GNSS

FOTA IOs SOS

IP67 Battery

BSTPL-15

BSTPL-15, is a basic Tracking Device made with combination of GSM/GPRS and GNSS technologies. Built with most advanced 32 Bit Cortex M0 Microcontroller, BSTPL-15 provides additional advantages to customers with One Digital Input, One Analog Input, One Digital Output, One SoS Interface and 3 Axis Accelerometer in addition to providing location details.

With built-in high quality GSM Module, BSTPL-15 supports all the 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.

Easy to install, BSTPL-15 provides highly reliable and accurate data to customers like Location Information, Speed, Direction, GPS Odometer, Alerts and Other IO's related information. Supporting wide operating voltage (DC 7V to 36V), BSTPL-15 has provision for 3.7V Li-Ion internal battery with built-in charging mechanism and uses a rugged Nylon enclosure meeting IP65/67 standards with built in GSM and GPS antennas.

BSTPL-15 provides various alerts related to vehicle like Main Power Connection / Disconnection, Ignition ON/OFF, SoS Status, Over Speeding, Harsh Breaking, Harsh Acceleration, Harsh Maneuver and Box Open / Close conditions.

BSTPL-15 hardware is designed with low power consumption for long battery backup. This will also minimise the draining of vehicle battery when the vehicle is idle for long time. BSTPL-15 also supports Sleep Mode feature which reduces the power consumption to less than 10 mA.

Features

- ✓ Cortex M0; 32 Bit Microcontroller
- ✓ 10000 Data Packets Storage*
- ✓ Multi Slot Class 12 GSM / GPRS Modem
- ✓ 33 Tracking & 99 Acquisition Channels GPS Receiver with -167 dBm gain
- ✓ Supports A-GPS
- ✓ 3 Axis Accelerometer
- ✓ Local and Over The Air (OTA) Software Update
- ✓ Local and Over The Air (OTA) Configuration
- ✓ Secured Over The Air (OTA) Configuration
- ✓ Supports TCP/IP; FTP; HTTP; HTTPS & MQTT Communication Protocols
- ✓ GPS Odometer
- ✓ Wide DC Input Operating Voltage (7V to 36V)
- ✓ Main Power Reverse connection protection
- ✓ Main Power Over Voltage protection
- ✓ Built-In 3.7V Li-Ion Battery

- ✓ Main Power Voltage Reading
- ✓ Box Open / Close detection
- ✓ Main Power Connect / Disconnect detection
- ✓ GSM Internal Antenna
- ✓ GPS Internal Antenna
- ✓ Nylon Plastic Enclosure complying to IP65/67*
- ✓ Configurable Data Sending Intervals
- ✓ Dynamic Data Sending
- ✓ LED Indication for Main Power; Internal Battery, GSM & GPS Status
- ✓ Provision for 2 server IPs and Ports
- ✓ Supports Sleep Mode function for longer battery backup
- ✓ One Digital Input
- ✓ One Digital Output
- ✓ One Analog Input
- ✓ One SoS Switch Interface

Technical Specifications

SPECIFICATION	DESCRIPTION
Microcontroller	32 bit Cortex M0 Microcontroller, 256 kB Program Memory and 12 bit ADC
Internal Memory	4 Mb. Supports 10000 Data Packets Storage When No GSM/GPRS Network 100K Erase & Program Cycles. 20 Years Data Retention Expandable to 64 Mb
Power Supply	Wide Range Of Operating Voltage. DC 7 - 36V
Internal Battery	3.6V, 500 mA Li-Ion Battery. Expandable to 2000 mA
GSM Module	Quad Band GSM 850 / 900 / 1800 / 1900 MHZ. Sensitivity: -109 dBm. Class 12 GPRS. Coding Schemes: CS1 2 3 4. Maximum UL & DL Speed: 85.6 kbps
GPS Module	Supports GPS & GLONASS. Also Supports GAGAN and AGPS 33 Tracking & 99 Acquision Channels. Sensitivity: -163 dBm Horizontal Position Accuracy: 2 Meters CEP @ -130 dBm (Open to Sky)
SIM Support	Supports eSIM With Automatic Profile Switching & Plastic SIM
Communication Protocols	TCP/IP, HTTP, FTP & MQTT
Input & Output Ports	1 Digital Input, 1 Analog Input, 1 Digital Output & 1 SOS Interface

SPECIFICATION	DESCRIPTION
Sensors	3 Axis Accelerometer. Box Open / Close Sensor
External Interfaces	Immobilization, Analog Fuel and Temperature Sensors
Antennas	Internal GSM & GNSS Antennas
Mechanical	Nylon FR Enclosure Complies to IP65/67*
Dimensions	88 x 56 x 27 mm
Environmental	Operating Temperature: 25°C to $+85^{o}$C Storage Temperature: 40°C to $+85^{o}$C Humidity: 95% Non-Condensing
LED Indications	Main Power, Internal Battery, GSM Network & GNSS Status
Configuration & Firmware	Local and Over The Air (OTA) Configuration. Supports SMS & GPRS Modes Local and Firmware Over The Air (FOTA) Support
Protections	Main Power Over Voltage, Reverse Connection & Tamper Detection
Power Requirements	7 - 36V DC 3.7V / 500 mA Li-Ion Battery

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

MAKE IN INDIA

Innovation Unlimited