BS Technotronics Private Limited
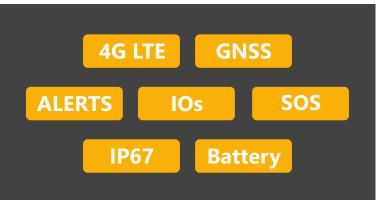
Innovation Unlimited

ISO 9001:2015

4G LTE GPS TRACKING DEVICE

4G LTE GNSS

ALERTS IOs SOS

IP67 Battery

BSTPL-17L

BSTPL-17L is a 4G LTE GPS Tracking device with fall back mechanism to 3G/2G and has provision for either GNSS or GNSS+IRNSS. The device also complies with the newly introduced intelligent transport system standards, AIS140. BSTPL-17L Designed for complying to standards like IS9000, ISO16750, AIS004, IEC60529, IS2465, ISO6722, ISO7637 and IP67. In addition to fulfilling the functionality requirements as required by AIS140, the device also has provision for additional interface requirements like multiple IO ports, SOS (Emergency Button), RS-232 and CAN Interface.

BSTPL-17L Supports all the Indian 4G LTE bands and the device can be made to support global and specific region bands with drop-in replacement of 4G LTE module. This will enable customers to meet the requirements of specific regions on immediate basis and avoid new development activity. BSTPL-17L is equipped with advanced 32 Bit Cortex M3 Microcontroller and Highly sensitive GNSS receiver supporting GPS, GLONASS, IRNSS* and GSM 4G LTE /3G/2G Transceiver with Internal Antennas, which delivers accurate real time data in toughest environmental and operating conditions. Compact in size, BSTPL-17L enables easy handling and easy installation.

Supporting three different types of protocols, BSTPL-17L has provision for generating alerts for Emergency Button, Box Tamper, Ignition On/Off, Vehicle Battery Connect / Disconnect, Internal Battery Low, Harsh Breaking, Harsh Acceleration and Harsh Turnings. Operates on wide DC operating voltage range (7-36V), BSTPL-17L is equipped with internal battery for continuous operation when main power is disconnected or tampered.

Features

- ✓ 32 Bit; Cortex M3 Microcontroller
- ✓ 45000 Data Packets Storage
- ✓ Expandable to 100000 Data Packets Storage
- ✓ Wide DC Input Operating Voltage (7V to 36V)
- ✓ Main Power Reverse connection protection
- ✓ Main Power Over Voltage protection
- ✓ Built-In 3.7V /1000 mA Li-Ion Battery
- ✓ Main Power Voltage Reading
- ✓ CAT3 Supporting LTE and UMTS/HSPA+ and Quad Band GSM/GPRS/EDGE
- ✓ Supports SMS; TCP/IP; FTP, HTTP, HTTPS & QMTT Communication Protocols
- ✓ Supports GPS, GLONASS, GALILEO & IRNSS*. Also Supports GAGAN and AGPS
- ✓ 22 Tracking & 66 Acquisition Channels
- ✓ Receiver Sensitivity: -165 dBm
- ✓ Local and Over The Air (OTA) Software Update
- ✓ Local and Over The Air (OTA) Configuration
- ✓ Secured Over The Air (OTA) Configuration
- ✓ Configurable Data Sending Intervals
- ✓ Details of Network Operator Name, Serving Cell ID and Neighbouring Cell ID Info

- ✓ Five Digital Inputs
- ✓ Two Analog Inputs
- ✓ Two Digital Outputs
- ✓ SOS Interface
- ✓ RS-232 Interface
- ✓ CAN Support*
- ✓ 3 Axis Accelero & Gyrometer
- ✓ GPS Odometer
- ✓ Provision for 3 server IPs and Ports
- ✓ LED Indication for Main Power; Internal Battery, GSM and GPS Status
- ✓ Supports Sleep Mode function for longer battery Backup
- ✓ Box Open / Close detection
- ✓ Main Power Connect / Disconnect detection
- ✓ GSM Internal Antenna
- ✓ GNSS & IRNSS* Internal Antenna
- ✓ Nylon Plastic Enclosure complying to IP67
- ✓ Dynamic Data Sending
- ✓ Alerts For Main Power Connect / Disconnect, Device Tamper, Over Speed, Harsh Breaking, Harsh Acceleration and Turning

Technical Specifications

SPECIFICATION	DESCRIPTION
Microcontroller	32 bit Cortex M3 Microcontroller, 256 kB Program Memory and 12 bit ADC
Internal Memory	32 Mb. Supports 45000 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, 1000 mA Li-Ion Battery. Expandable to 2000 mA
GSM Module	CAT3 Supporting LTE and UMTS/HSPA+ and Quad Band GSM/GPRS/EDGE. Auto Fall Back to 3G & 2G. Maximum DL & UL Speed: 100 & 50 Mbps
GPS Module	Supports GPS & GLONASS. Optional IRNSS. 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 or Plastic SIM
Communication Protocols	TCP/IP, HTTP, FTP & MQTT
Input & Output Ports	5 Digital Inputs, 2 Analog Inputs, 2 Digital Outputs, 1 RS232 Port & 1 SOS Interface
Sensors	3 Axis Accelero & Gyrometer. Box Open / Close Sensor
CAN Interface	Supported Using External Adaptor
External Interfaces	Supports Fuel & Temperature Sensors, RF & NFC Reader and Immobilization Function

SPECIFICATION	DESCRIPTION
Antennas	Internal GSM & GNSS + IRNSS* Antennas
Mechanical	Nylon Plastic Enclosure meeting IP67. Dimensions: 118 x 77 x 31 mm
Environmental	Operating Temperature: -25^oC to $+85^oC$. Storage Temperature: -40^oC to $+85^oC$. Humidity: 95% Non-Condensing
LED Indications	Main Power, Internal Battery, GSM Network & GNSS Status
Configuration	Local and Over The Air (OTA) Configuration. Supports SMS & GPRS Modes. Local and Firmware Over The Air (FOTA) Support
Standards Complying	IS 9000, ISO 16750, AIS 004, IEC 60529, IS 2465, ISO 6722, ISO 7637 and IP67
Protections	Main Power Over Voltage, Reverse Connection & Tamper Detection. ESD Protection
Alerts	Main Power Connect/Disconnect, Device Tamper, Over Speed, 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.