

# BS TECHNOTRONICS PRIVATE LIMITED



**ISO 9001:2015**

## **2G GSM & GNSS Tracking Device**

**2G GSM**

**GNSS**

**FOTA**

**IOs**

**SOS**

**IP65**

**7-100V**

**BSTPL-56R**

BSTPL-56R, is a basic Tracking Device made with combination of 2G GSM and GNSS technologies. Built with most advanced Microprocessor, BSTPL-56R provides additional interfaces to customers with RS-485, Bluetooth 4.0\*, One Digital Input, One Analog Input, One Digital Output, One SoS Interface, 3 Axis Accelerometer and 1 Wire Interface.

With built-in high quality 2G GSM Module, BSTPL-56R supports Quad Band 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 Acquisition Channels with -167 dBm gain provides accurate location data in toughest and difficult conditions.

Easy to install, BSTPL-56R 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 of 7V to 100V DC, BSTPL-56R has provision for 3.7V Li-Ion internal battery with built-in charging circuit and uses a rugged Nylon enclosure meeting IP65 standard with built in GSM, GNSS and Bluetooth\* antennas. BSTPL-56R supports SIM interface of both eSIM and Micro SIM.

BSTPL-56R 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-56R 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-56R also supports Sleep Mode feature which reduces the power consumption to less than 10 mA.

<http://bstechnotronics.com/>

### Features

- ✓ Based on advanced microprocessor
- ✓ 50000 Data Packets Storage when no GSM / GPRS network
- ✓ Supports 2G Quad Band, 850/900/1800/1900 MHz
- ✓ Supports Class 12 GPRS and A-GPS
- ✓ Optional Bluetooth 4.0\*
- ✓ Local and Over The Air (OTA) Software Update (FOTA)
- ✓ Local and Over The Air (OTA) Configuration
- ✓ Secured Over The Air (OTA) Configuration
- ✓ Multi Slot Class 12 GSM / GPRS Module
- ✓ Supports TCP / IP; FTP; HTTP; HTTPS & MQTT Protocols
- ✓ Supports eSIM with Profile Switching. Optional Micro SIM
- ✓ Supports GPS, GLONASS & GALILEO
- ✓ 33 Tracking and 99 Acquisition Channels
- ✓ GPS Receiver Sensitivity: -167 dBm
- ✓ GPS Odometer
- ✓ Built-In 3.7V Li-Ion Battery
- ✓ Main Power Reverse connection protection
- ✓ Main Power Reverse connection protection
- ✓ Main Power Over Voltage Protection
- ✓ One Digital Input, One Analog Input and One Digital Output
- ✓ One RS-485
- ✓ SOS Interface
- ✓ Bluetooth Support\*
- ✓ 3 Axis Accelerometer
- ✓ Provision for Two Server IPs and Ports
- ✓ LED Indication for Main Power, Internal Battery, GSM and GPS Network Status
- ✓ GPRS to SMS Fallback
- ✓ Sleep Mode Function for longer battery backup
- ✓ Box Open / Close Detection
- ✓ Main Power Connect / Disconnect Indication
- ✓ GSM and Bluetooth Internal Antennas
- ✓ GNSS Internal Antenna
- ✓ Nylon Plastic Enclosure complying to IP65
- ✓ Dynamic Data Sending
- ✓ Alerts For, Main Power Connect/Disconnect, Device Tamper, Over Speed, Low Battery, Harsh Breaking, Harsh Acceleration and Harsh Turning

### Technical Specifications

SPECIFICATION	DESCRIPTION
Microprocessor	Module Open CPU. 64 MB Supporting 50000 data packets storage,
Internal Memory	100K Erase and Program Cycles, 20 years data retention and expandable to 64 Mb
Power Supply	DC Voltage, 7 – 100V
Internal Battery	3.7V / 400 mA. Expandable to 2000 mAh
2G GSM Module	2G 850/900/1800/1900 MHz Sensitivity: -109dBm. Supports 85.6 kbps Download and 85.6 kbps Upload Data Speed
GPS Module	Supports GPS & GLONASS 33 Tracking and 99 Acquisition 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 Micro SIM
Communication Protocols	TCP/IP, HTTP, FTP, MQTT & MQTTS
Input & Output Ports	1 Digital Input, 1 Digital Output, 1 Analog Input, 1 SOS Interface & 1 RS-485

SPECIFICATION	DESCRIPTION
Sensors	3 Axis Accelerometer & Box Open / Close sensor
Antennas	Internal GSM, GNSS & BT Antennas*
Mechanical	Nylon Enclosure Complying to IP65. Dimensions: 88 x 56 x 27 mm
Environmental	Operating Temp. -25°C to +85°C Storage Temp. -40°C to +85°C Humidity: 95% Non-Condensing
LED indication	Main Power, Internal Battery, GSM Network and GPS Network
Configuration & Firmware	Local & Over The Air Configuration Local and FOTA Firmware Update
Standards Complying	ISO7636 and IP65
Protection	Main Power Over Voltage and Reverse Connection Protection and Box Tamper Detection
Alerts	Main Power Connect / Disconnect, Device Tamper, Over Speed, Harsh Breaking, Harsh Acceleration, Harsh Turning, Internal Battery Low Voltage

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



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