BS TECHNOTRONICS PRIVATE LIMITED

ISO 9001:2015

4G LTE / 2G GSM & GNSS Telematics Device With CAN

4G/2G GSM | **GNSS & BT**

FOTA | **IOs** | **CAN**

IP65 | **7-100V**

BSTPL-55L

BSTPL-55L, is a basic EV Telematics Device made with combination of 4G LTE + 2G GSM and GNSS technologies. Built with most advanced Microprocessor, BSTPL-55L provides additional interfaces to customers with CAN, Bluetooth 4.0, One Digital Input, One Digital Output, One Analog Input, One SOS Interface and 3 Axis Accelerometer. Supporting wide operating voltage range of 7-100V DC, BSTPL-55L includes features like location information, speed, direction, GPS odometer, driving behaviours, data from the interfaces integrated with vehicle like Battery SOC & SOH, Vehicle Diagnostics, Battery Health, Individual Cell Voltages, Cell Temperatures and many more.

With built-in high quality GSM Module, BSTPL-55L supports 4G LTE Bands B1/B3/B5/B7/B8/B20/B28/B38/B40/B41 and 2G GSM networks operating on 850/900/1800/1900 MHz frequencies. Highly sensitive GNSS module with 33 Tracking and 99 Acquision Channels with -167 dBm gain provides accurate location data in toughest and difficult conditions.

BSTPL-55L is recommended for vehicles which operates on 12/24V battery and Electric Vehicles which operates on extended operating voltage i.e. up to 100V. BSTPL-55L is also provided with internal battery for continuous operation when main power is disconnected or tampered. BSTPL-55L uses a rugged Nylon enclosure meeting IP65 standard with built in GSM and GPS antennas. BSTPL-55L supports SIM interface of both eSIM and Micro SIM.

Capable of supporting different types of protocols, BSTPL-55L 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-55L 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-55L also supports Sleep Mode feature which reduces the power consumption considerably. Compact in size, BSTPL-55L enables easy handling and easy installation.

http://bstechnotronics.com/

Features

- ✓ Advanced high-speed microprocessor & ARM Cortex Microcontroller
- ✓ 50000 Data Packets Storage when no GSM / GPRS network
- ✓ Supports 4G LTE Bands: B1/B3/B5/B7/B8/B20/ B28/B38/B40/B41 & Quad Band GSM
- ✓ Auto fall back from 4G to 2G & 2G to 4G
- ✓ 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 SMS; TCP/IP; FTP, HTTP, HTTPS & MQTT & MQTTS Communication Protocols*
- ✓ Supports eSIM with Profile Switching. Optional Micro SIM
- ✓ Supports GPS & GLONASS
- ✓ 33 Tracking and 99 Acquision Channels
- ✓ GPS Receiver Sensitivity: -167 dBm
- ✓ GPS Odometer
- ✓ 7 – 100V Operating Voltage With Built-In 3.7V Li-Ion Battery
- ✓ Main Power Over Voltage Protection
- ✓ CAN Interface
- ✓ SOS Interface*
- ✓ Bluetooth Support
- ✓ 3 Axis Accelerometer
- ✓ Provision for multiple Server IPs and Ports
- ✓ LED Indication for Main Power, Internal Battery, GSM and GPS Network Status
- ✓ Sleep Mode Function for longer battery backup
- ✓ Box Open / Close Detection
- ✓ Main Power Connect / Disconnect Indication
- ✓ GSM, GNSS and Bluetooth Internal Antennas
- ✓ 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
- ✓ Main Power Reverse connection protection
- ✓ Main Power Reverse connection protection
- ✓ One each Digital & Analog Input and One Digital Output

Technical Specifications

SPECIFICATION	DESCRIPTION
Microprocessor	Advanced High-Speed Processor, 1MB Program Memory & 2MB RAM
Microcontroller	ARM Cortex Microcontroller 256KB Program Memory & 96KB RAM
Internal Memory	64 Mb Supports 50000 data packets storage 100K Erase and Program Cycles, 20 years data retention and expandable to 128 Mb
Power Supply Internal Battery	7 – 100V DC Voltage 3.7V / 500 mA. Expandable to 1500 mAh
4G LTE GSM Module	4G Bands B1/B3/B5/B7/B8/B20/B28/B38/ B40/B41 and Quad Band GSM Sensitivity: -109dBm. Auto fall back from 4G to 2G & 2G to 4G
GPS Module	Supports GPS & GLONASS 33 Tracking and 99 Acquision channels,
SIM Support	eSIM with dual profile. Provision for Nano SIM
Communication Protocols	TCP/IP, HTTP, FTP, MQTT, MQTTS ….
Input & Output Ports	1 Digital Input, 1 Digital Output, 1 Analog Input & 1 SOS Interface One CAN Interface

SPECIFICATION	DESCRIPTION
Sensors	3 Axis Accelerometer & CAN 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	ISO767-2 & ISO16750-2 and IP65
Protection	Main Power Over Voltage and Reverse Connection Protection, Box Tamper Detection and ESD protection
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.