



ISO 9001:2015

Advanced Vehicle Tracking Device

GSM

GNSS

ALERTS

IOs

SOS

IP67

Battery

BSTPL-17A

BSTPL-17A is an advanced GNSS based vehicle tracking device, Designed for complying to standards like IS 9000, ISO 16750, AIS 004, IEC 60529, IS 2465, ISO 6722, ISO 7637. In addition to fulfilling the basic GPS functionalities, the device meets interface requirements like multiple IO ports, SOS (Emergency Button), RS-232 and CAN interface.

BSTPL-17A is designed keeping in view the Indian operating conditions. Software functionalities are built to integrate the device with the multiple servers and send data & alerts as per customer requirements.

BSTPL-17A is equipped with advance 32 Bit Cortex M3 Microcontroller and Highly sensitive GNSS Receiver and GSM Transceiver with Internal Antennas, which delivers accurate real time data in toughest environmental and operating conditions. Compact in size, BSTPL-17A enables easy handling and easy installation.

BSTPL-17A supports the requirement of sending data to 3 servers as per the polling intervals required by customer. Supporting four different types of protocols, device 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 Maneuver.

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
- ✓ Multi Slot Class 12 GSM / GPRS Modem
- ✓ Supports SMS; TCP/IP; FTP, HTTP, HTTPS & MQTT Communication Protocols
- ✓ Supports IRNSS, GPS & GLONASS. Also Supports GAGAN and AGPS
- ✓ 22 Tracking & 66 Acquisition Channels
- ✓ Receiver Sensitivity: -167 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
- ✓ Four Digital Inputs
- ✓ Two Analog Inputs
- ✓ Two Digital Outputs
- ✓ SOS Interface
- ✓ RS-232 Interface
- ✓ CAN Support
- ✓ 3 Axis Accelerometer & 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 Braking, Harsh Acceleration and Turning

Technical Specifications

SPECIFICATION	DESCRIPTION	SPECIFICATION	DESCRIPTION
Microcontroller	32 bit Cortex M3 Microcontroller, 256 kB Program Memory and 12 bit ADC	Sensors	3 Axis Accelerometer & Gyrometer. Box Open / Close Sensor
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	CAN Interface	Supported
Power Supply	Wide Range Of Operating Voltage. DC 7 - 36V	External Interfaces	Supports Fuel & Temperature Sensors, RF & NFC Reader and Immobilization Function
Internal Battery	3.6V, 1000 mA Li-Ion Battery. Expandable to 2000 mA	Antennas	Internal GSM & GNSS Antennas
GSM Module	Quad Band GSM 850 / 900 / 1800 / 1900 MHz. Sensitivity: -109 dBm. Jamming Detection Class 12 GPRS. Coding Schemes: CS1 2 3 4. Maximum UL & DL Speed: 85.6 kbps	Mechanical	Nylon Plastic Enclosure meeting IP67
GPS Module	Supports GPS & GLONASS. Also Supports GAGAN and AGPS 33 Tracking & 99 Acquisition Channels. Sensitivity: -163 dBm Horizontal Position Accuracy: 2 Meters CEP @ -130 dBm (Open to Sky)	Dimensions	118 x 77 x 31 mm
SIM Support	Supports eSIM With Automatic Profile Switching & Plastic SIM	Environmental	Operating Temperature: -25°C to +85°C Storage Temperature: -40°C to +85°C Humidity: 95% Non-Condensing
Communication Protocols	TCP/IP, HTTP, FTP & MQTT	LED Indications	Main Power, Internal Battery, GSM Network & GNSS Status
Input & Output Ports	4 Digital Inputs, 2 Analog Inputs, 2 Digital Outputs, 1 RS232 Port & 1 SOS Interface	Configuration & Firmware	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

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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