



ISO 9001:2015

4G Voice Box

4G LTE

GNSS & BT*

2W AUDIO

IOs

RS-232

IP65

7-36V DC

BSTPL-42L

BSTPL-42L VB is an advanced version of voice box used in various applications like automotive, industrial, automation and public places for automated and server-based voice announcements. The Voice Box has provision for broadcasting specific pre-recorded audio messages and support 2-Way voice calling using 4G/LTE and 2G GSM Networks.

With built-in high quality 4G LTE module, BSTPL-42L supports 4G LTE B1/B3/B5/B7/B8/B20/B28/B38/B40/B41 Bands and 2G GSM networks operating on 850/900/1800/1900 MHz frequencies. In addition to 4G LTE & 2G GSM Networks, BSTPL-42L has provision for highly sensitive GNSS receiver* with 22 tracking & 66 acquisition channels support which can provide accurate location data in toughest and difficult conditions. BSTPL-42L also equipped with Bluetooth 4.0 feature*

Compact in size, BSTPL-42L enables easy handling and easy installation. BSTPL-42L can be installed vertically or horizontally depending up on the installation location BSTPL-42L is capable of broadcasting voice messages in multiple languages. In addition, 4 different alarming tones are also provided.

BSTPL-42L Voice Box installed in Trucks and Passenger Vehicles generates event-based audio alerts which will help the drivers to be in better control and avoid possible accidents and provides driver/passengers safety. The device can be interfaced to external devices or accessories through RS-232 Port.

BSTPL-42L has provision for storing circular and polygonal geo-fences and each geo-fence can be tagged to particular voice file in addition to detecting of geo-fences in & out, device can be configured for particular route in which movement of the vehicle is allowed. This will help the fleet owners in avoiding misuse of the vehicles and guide/warn the drivers when they deviate from the defined route

BSTPL-42L has provision for RS-232 Serial Port for interfacing to external accessories for monitoring purpose. Voice box is equipped with 2W speaker supported by 2W internal audio amplifier. Five LEDs are provided for indicating various visible alerts. BSTPL-42L complies with ISO7637 Standard in addition to IP65 standard. BSTPL-42L enclosure is made of PC material for withstanding to toughest field conditions

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Features

- ✓ Advanced high-speed microprocessor with 1MB program memory and 2MB RAM
- ✓ 128 MB and 64 MB External Storage
- ✓ 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.
- ✓ Supports SMS; TCP/IP; FTP, HTTP, HTTPS & MQTT & MQTTS Communication Protocols*
- ✓ Supports PLMN / Network Lock
- ✓ Internal GSM Antenna Supporting 4G and 2G
- ✓ Supports Nano SIM Card and eSIM
- ✓ Optional GPS & GLONASS
- ✓ 22 Tracking and 66 Acquisition channels with -167 dBm Sensitivity
- ✓ Horizontal Position Accuracy of 3 meters CEP @ -130 dBm (Open to sky)
- ✓ Built in Embedded GNSS Patch Antenna
- ✓ Optional Bluetooth 4.0 with built in antenna
- ✓ One RS-232 Interface
- ✓ Two Digital Inputs* & One Analog Input*
- ✓ Mic Provision for 2-way voice calling
- ✓ Support Circular and Polygonal Geo-Fences
- ✓ Wide DC Input Operating Voltage (7V to 36V)
- ✓ Main Power Reverse connection protection
- ✓ Main Power Over Voltage protection
- ✓ Supports 150 audio files @ 100K Maximum
- ✓ Support Multiple Languages
- ✓ 2W Speaker
- ✓ Five LEDs for multipurpose indications
- ✓ Box Open / Close detection
- ✓ Nylon Plastic Enclosure complying to IP65
- ✓ Supports Vertical and Horizontal Installation
- ✓ Complies With IECXEx, ISO 7637 and IP65 Standards
- ✓ Local and Over The Air (FOTA) Software Update
- ✓ Local and Over The Air (OTA) Configuration
- ✓ Secured Over The Air (OTA) Configuration
- ✓ Over The Air (OTA) Audio Files Update
- ✓ Over The Air (OTA) Geo-Fence Files Update
- ✓ 4 Core, 6 core and 9 core cable options

Technical Specifications

SPECIFICATION	DESCRIPTION	SPECIFICATION	DESCRIPTION
Power Supply	Wide Range Of Operating Voltage. 7 - 36V DC Voltage	Alerts	Device Tamper
Internal Memory	128 & 64 MB. 100K Erase & Program Cycles. 20 Years Data Retention Expandable Memory Option	Mechanical	Nylon Plastic Enclosure meeting IP65. Dimensions: 110 x 100 x 61 mm
4G LTE GSM Module	4G 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.	Standards Complying	ISO 7637 and IP65 IECEX (EPLGc and EPLGb)
GNSS*	Supports GPS & GLONASS 22 Tracking and 66 Acquisition channels, -167 dBm Sensitivity, Horizontal Position Accuracy of 3 meters CEP @ -130 dBm (Open to sky)	Configuration & Audio Files Update	Local and OTA Configuration. Supports SMS & GPRS Configuration Supports FOTA OTA Audios Files Update
Speaker and Audio Amplifier	2W Speaker 2W Audio Amplifier	LED Indications	Main Power, Audio, High, Medium and Low Status
Input & Output Interfaces	1 RS-232 Interface 2 Digital Inputs* & 1 Analog Input* Bluetooth 4.0	Protections	Main Power Over Voltage, Reverse Connection & Tamper Detection. ESD Protection

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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