BS TECHNOTRONICS PRIVATE LIMITED

ISO 9001:2015

Voice Box With RS-232 Interface

2W AUDIO   GEOFENCE*

2W SPEAKER   IOs   RS-232

IP65   7-36V DC

BSTPL-42V

BSTPL-42V is a microcontroller-based voice box used in trucks and buses for voice announcements to driver. The Voice Box has provision for broadcasting specific pre-recorded audio messages useful for the crew inside a truck or bus. Compact in size, BSTPL-42V enables easy handling and easy installation. BSTPL-42V can be installed vertically or horizontally depending up on the installation location BSTPL-42V is capable of broadcasting voice messages in 13* different Indian languages. In addition to voice messages, the voice box has provision for 4 different types of alarming tones.

BSTPL-42V 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 provide driver/passengers safety. The device can be interfaced to external devices or accessories through RS-232/TTL Interface. BSTPL-42V 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-42V has provision for One RS-232/TTL Interface, Two Digital Inputs* & One Analog Input* for interfacing to external accessories for monitoring purpose. BSTPL-42V Voice box is equipped with 2W speaker supported by 2W internal audio amplifier. Five LEDs are provided for indicating various visible alerts. BSTPL-42V complies with ISO7637 Standard in addition to IP65 standard. BSTPL-42V enclosure is made of PC material for withstanding to toughest field conditions.

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Features

- ✓ 32 Bit; Cortex M0 Microcontroller
- ✓ 128 MB and 64 MB External Storage
- ✓ Geo-Fences - Circular (25K) and Polygonal (5K)
- ✓ 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 13* Languages
- ✓ 3" 2W Speaker
- ✓ Supports SMS; TCP/IP; FTP, HTTP, HTTPS & MQTT Communication Protocols*
- ✓ One TTL Interface
- ✓ Two Digital Inputs*
- ✓ One Analog Input
- ✓ LED Indication for Main Power; Audio, High, Medium and Low Status Indication
- ✓ 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*

Technical Specifications

SPECIFICATION	DESCRIPTION	SPECIFICATION	DESCRIPTION
Microcontroller	32-bit Cortex M0 Microcontroller, 256 kB Program Memory	Alerts	Device Tamper
Internal Memory	128 & 64 MB. Supports 150 Audio Files and 5K Polygonal / 25K Circular Geo-Fences 100K Erase & Program Cycles. 20 Years Data Retention Expandable Memory Option	Mechanical	Nylon Plastic Enclosure meeting IP65. Dimensions: 110 x 100 x 61 mm
Power Supply	Wide Range Of Operating Voltage. DC 7 - 36V	Standards Complying	ISO 7637 and IP65 IECEx (EPLGc and EPLGb)
Environmental	Operating Temperature: -25°C to +85°C Storage Temperature: -40°C to +85°C Humidity: 95% Non-Condensing	Configuration	Local and Over The Air (OTA) Configuration. Supports SMS & GPRS* Modes Local and Firmware Over The Air (FOTA*) Support
Speaker and Audio Amplifier	2W Speaker 2W Audio Amplifier	LED Indications	Main Power, Audio, High, Medium and Low Status
Input & Output Ports*	1 TTL 2 Digital Inputs 1 Analog Input	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.