



## Bharath-101 • AIS-140 device Technical Datasheet



### Bharath-101 AIS-140 Certification



IP67 Waterproof



Easy Installation



Battery Removal  
Alert



Configurations through  
SMS



AIS-140 Certification



Motion Sensor



### Product Summary

BHARAT-101 is an AIS140 Certified device with and is a Compact high-end Vehicle tracking/Fleet management black box with rugged IP67 casing. It has an embedded sim which is incorporated to send information to 3 IPs. BHARAT 101 is the first device in India to be certified under AIS 140. It can be used in tracking, I/O applications, serial data and real-time tracking. It can be used as a fleet management device in various domains such as Logistic, Taxi operation, Car/Bike rentals and Insurance Telematics etc.

### Key Features:

- IP67 Rating - Waterproof & Dustproof
- AIS-140 Certification
- All Parameter Configurations through SMS & USB
- Main Battery Removal Alert
- Easy Installation and Configuration
- 1 RS232, 1 USB Port
- Motion Sensor, Accelerometer, Gyroscope

- Long Battery Backup up to 8 hrs. with inbuilt 700mAh Battery
- 2 Analog Inputs, 4 Digital Inputs & 2 Digital Outputs
- Data Storage with Storage Capacity Of 400000 Records)
- Remote Health Checking / Diagnostics through SMS
- Low power consumption & power optimization

## Technical Specification

Parameters	Description
Chipset	BHARAT-101
Memory	8 MB solid state Flash, 100K Erase and Program Cycle 10-year data retention
GSM Module	Quad Band GSM 850/900/1800/1900Mhz
GNSS Module	GNSS (GPS+IRNSS)1 acquisition and 48 tracking channels, ultra-high tracking/navigation sensitivity: -163dBm 2.5 M CEP (50%) @-130dBm
Antennae	Internal
Communication Interface	TCP/IP on GPRS
Record Storage/Buffer	40000 Tracking Records
Interface	4 Digital inputs   2 Digital outputs (Open Drain)   2 Analog inputs   1-USB Device type B   1 RS232 Port
Speed Sensor	GNSS (default)
SIM Interface	Embedded SIM
GPRS Packet Data	Class 12, Class 10(Optional) Coding Scheme CS1 to CS4
LED Indication	Process, GSM, GNSS, USB Detection
Connectors	12 Pin connector
Power Supply	Wide DC input voltage range (9V - 32V)
Current Consumption	160mA < during transmission, 50mA < during tracking and < 35mA during Sleep Mode
Internal Battery	850mAh, 6 to 8 Hr backup*

<b>Enclosure</b>	ABS plastic casing with IP67 rating
<b>Temperature</b>	Operating: -25°C to +85°C
<b>Dimension</b>	133mm x 71mm x 34mm
<b>Weight</b>	233g
<b>FOTA</b>	Firmware upgrade Over the Air available
<b>Motion Sensor</b>	3 Axis Accelerometer, 3 Axis Gyro meter

### ***BHARAT 101 - AIS 140: Supported Accessories***



**Immobilization Relay**



**Fuel Sensor**



**RFID Reader**



**Panic Button**



**IP/USB Camera**