



# EFFICIENCY & SECURITY REDEFINED

## eTrans DARSH\_AIS140 GPS TRACKER

Certified by the Automotive Research Association of India (ARAI), **eTrans DARSH\_AIS140 GPS Tracker** is an advanced solution designed to enhance vehicle safety, tracking and management. In compliance with the Automotive Industry Standard 140 (AIS-140) and meets the Intelligent Transportation System (ITS) regulations in India.

### Key Features and Benefits

- ▶ **ARAI Certification** ensures reliability and compliance with the stringent quality and performance and Government regulations.
- ▶ **Real-Time Tracking with IRNSS:** Equipped with the Indian Regional Navigation Satellite System (IRNSS) along with GPS and GLONASS, the eTrans DARSH AIS140 GPS Tracker provides precise real-time tracking of fleet location and movement with high accuracy.
- ▶ **Panic & SOS Button Integration:** Enhances passenger safety by enabling them to send distress signals to a central monitoring system, ensuring prompt assistance.
- ▶ **Alert & Notification System:** Alerts and notifications on over-speeding, route deviation, geo-fencing, and unauthorized vehicle usage help maintain compliance with road safety regulations and improve operational efficiency.
- ▶ **Extensive Data Logging:** With the capability to log up to 40,000 data points, the eTrans AIS140 GPS Tracker provides a comprehensive record of the vehicle's travel history. This data can be accessed and analyzed later, offering valuable insights into driving behavior, accident investigations, and route optimization.
- ▶ **Fuel Monitoring:** Select models of the eTrans AIS140 GPS Tracker provide fuel monitoring features, enabling fuel usage tracking and detection of discrepancies. This helps reduce fuel theft and manage fuel expenses more effectively.
- ▶ **Remote Immobilization:** In case of theft or unauthorized use, the eTrans AIS140 GPS Tracker can remotely immobilize the vehicle. This feature enhances security by preventing the vehicle from being started until it is recovered.
- ▶ **Rugged & Durable Design:** The IP67 grade enclosure makes it resistant to dust and water and ensures reliable performance under various environmental conditions, enhancing the longevity of the device.
- ▶ **Enhanced Fleet Management:** Comprehensive reports and analytics provided by the eTrans AIS140 GPS Tracker benefit fleet operators helping them to make informed decisions, improving efficiency, and reducing operational costs.



## Applications



### Public Transport

The AIS140 GPS Tracker is widely used in public transport systems, including buses and taxis, to ensure passenger safety, monitor routes, and improve service efficiency.



### Logistics & Freight

Logistics companies use AIS140 GPS Trackers to monitor their fleet, optimize routes, and ensure timely delivery of goods. This helps in reducing operational costs and enhancing customer satisfaction.



### Emergency Services

Ambulances and emergency response vehicles use AIS140 GPS Trackers to ensure quick response times and efficient navigation to incident sites.

## Technical Specifications

Parameters	Description of DARSH-AIS140
<b>Microcontroller</b>	32 Bit Cortex A5
<b>Chipset</b>	GSM Chipset: UNISOC 8910DM
	GNSS & IRNSS Chipset: UNISOC 8910DM
<b>Memory</b>	16 M-byte Flash, Minimum 100K Erase and Program Cycle
	More than 20 Years Data Retention
<b>GSM Module</b>	GSM 900/1800 MHz, GPRS: Multi-slot class12, Coding Scheme: CS1 to CS4
<b>GNSS &amp; IRNSS Module</b>	Supports GNSS Bands. L1, L5, B1, E1
	Supports GPS, GLONASS, BeiDou, Galileo, QZSS and IRNSS
	Internal GNSS and IRNSS Antennas
	<2.5 M CEP @-147dBm
<b>Antennae</b>	Internal
<b>Communication Interface</b>	Supports TCP, FTP & HTTP
<b>Record Storage/buffer</b>	60000 Tracking Records
<b>Ports</b>	4 Digital Inputs, 2 Analog Inputs, 2 Digital Outputs, 1 SOS Interface
	One RS232
<b>Speed Sensor</b>	GNSS
<b>SIM Interface</b>	Supports ESIM and Plastic Micro SIM (1.8/3.0V)
<b>GPRS Packet Data</b>	Class 12, Coding Scheme CS1 to CS4
<b>LED Indication</b>	Main Power, Module Status, GSM and GNSS
<b>Connectors</b>	16 Pin Connector
<b>Power Supply</b>	Wide DC Input Voltage (DC 9 to 60V)
<b>Current Consumption</b>	80 – 150 mA During Transmission. 50 mA During Idle Condition. 12 mA in Sleep Mode
<b>Internal Battery</b>	1200 mA. 8 Hours Backup
<b>Enclosure</b>	ABS 700, Complying to IP67
<b>Temperature</b>	Operating: -35°C to +75°C
	Storage: -40°C to +90°C
<b>Dimension</b>	102 x 100 x 36 mm
<b>Weight</b>	250g Appx.
<b>FOTA</b>	Firmware Update Over the Air
	Over The Air Device Configuration
<b>Geo Fencing</b>	Supports Circular and Polygonal Geo Fencing
<b>Motion Sensor</b>	3 Axis Accelerometer and Gyrometer (Harsh Braking and Cornering)

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