



Introduction

The GPS AIS 140 - 4G device is a cutting-edge solution designed to enhance vehicle and fleet management, ensuring safety, compliance, and efficiency. This advanced device combines the power of GPS (Global Positioning System) and AIS (Automotive Industry Standards) technology with 4G connectivity to provide real-time tracking and monitoring of vehicles.

With AIS 140 compliance, this device meets regulatory standards, making it an essential tool for transportation and logistics companies, public transportation, and government authorities.

<u>Uses</u>

GPS tracking devices are simple to use, and their installation is an even simpler process. Apart from opting for a wireless GPS tracker, there are ones that can be embedded into vehicle in the OBD port with a power backup, or can also be integrated with the vehicle's battery.

Features

- Smart GPS device is fixed in vehicles for tracking live location with live speed.
- This device automatically pushes encrypted data into asecure server.
- LED indicators: GPS, GSM & Power.
- Real-time tracking with GPS/ Glonass /IRNSS.
- Alert/regular SMS or email can be sent to Tracking collection team.
- IP65 enclosure to sustain in harsh environment.
- Vehicles geo location details can be sent to server onreal-time basis.
- Device able to communicate over 2G, 3G, 4G technology.
- Emergency Button as per AIS 140
- Embedded Sim
- Driver Behaviour Monitoring
- Device Tampering Alert
- Real-time tracking with GPS/Glonass/IRNSS
- Multiple Input /output ports





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GPS AIS 140(4G) (AJV-IOT-GPS-003)



Technical Specifications:

S. No.	Parameter	Value	
Α	GSM Specification		
	GSM / GPS	EC-200U Quectel 4G/3G/2G bands	
	Protocols	TCP/IP	
	SIM	Neon SIM Card/E-SIM	
	SMS	Text SMS OTA Command Support	
	FOTA	FOTA FTP support	
В	GSM Specification		
	GPS Channels	33 (Tracking) / 99 (Acquisition)	
	Horizontal Position Accuracy	<2.5 m CEP	
	Velocity Accuracy	<0.1m/s	
	Acceleration Accuracy	0.1 m/s ²	



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	Cold Start	<35s	
	Warm Start	<30s	
	Hot Start	<1s	
	Sensitivity Acquisition	-148dBm	
	Tracking Reacquisition	-165dBm	
		-160dBm	
C	Micro Controller and IO's Specification		
	Micro-controller	Nuvoton NUC131 32-bit ARM Cortex [™] -	
		M0 Processor with 50MHzPLL Clock, 32KB	
		SRAM , 64KB Code Memory	
	Flash Memory	64 M-Bit for Data logging up to 50000	
		data packs	
	Accelerometer / Gyro Meter	Yes 16G Sensitivity	
	Digital Inputs	One dedicated to Ignition Input Four Other	
		Active High Digital inputs	
		One Rising edge detector with active low	
		input for Emergency button	
	Analog Inputs	One Frequency Input for RPM reading /	
		Optional with digital input 4	
		Four 12bit ADC channels read up to 28000 mV	
	Digital Output	Two Digital output active low up to 500mA	
	CAN BUS OBD PORT	One CAN BUS (J1939 protocol) port/optional	
		RS-485	
	UART RS232 Port	One UART RS232 Port with configurable baud	
		rate Use to read digital RS232 fuel Sensor	
		data/Biometric sensor inputs/RF-ID.It can be customize as per requirement as	
		well	
	Communication Protocols	https, MQTT, tcp-ip	
	Supported		
	Tamper Switch	Yes, to detect device cover open/close	
	Hardware Reset Switch	Yes	
D	Device Power Specification		
	Input Power Voltage	8V to 56V	
	Current Drawn by device	Max - 350mA during Charging	
		Nominal – 80mA when internal battery is full	
	Li-ion Battery	600mAH battery gives backup up to 6 hours	
		(1000mAH optional for longer backup up to 8	
		hours).	



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	Device LED Indications		
	LED's	 RED – Blinks every 5sec When working on external voltage Yellow – Blinks when GPS Signals is acquired Blue – Blinks when device is active and ready to connect with the internet Green – Blinks in every 3 sec Normal working Twice blink device is sensing vibrationsFast Blinking when sending data to SERVER 	
F	Housing Specification		
	Housing Type	ABS Plastic Optional Polycarbonate	
	Dimensions	Length: 100 mm	
		Width: 92 mm	
		Height: 33 mm	
G	Certifications		
	Certificates	ARAI Certified , CE , RoHS Make In India , Made In India	

