



UX-101 • AIS-140 device Technical Datasheet



UX 101 AIS-140 Certification



IP67 Waterproof



Easy Installation



Battery Removal
Alert



Configurations
through SMS



AIS-140 Certification



Motion Sensor



Product Summary

UX 101 is AIS140 Certified 4G tracking device. UX 101 can be described as a High-end Compact Vehicle tracking/Fleet management black box with rugged IP67 casing. Our premium 4G enabled device comes with lots of connectivity options, Speed Processing power Its ability to tightly integrate with CAN bus of the Vehicle, enables to implement various connected Vehicle use cases. It can be used as a fleet management device in various domains such as Logistic, taxi operation, car/bike rentals, security tracking, insurance telematics, asset tracking, etc. integrated with internal antennae which makes it suitable for hidden/stealth installations.

Key Features:

- 4G LTE support
- AIS 140-Certification
- IP67 Rating - Waterproof & Dustproof
- Motion Sensor, Accelerometer, Gyroscope
- Automotive ECU Type Connector
- Main Battery Removal Alert

- Easy Installation and Configuration
- (2 RS232*) or (1 RS232* & 1 RS485* Port) or (1 USB)
- (2 RS232*) or (1 RS232* & 1 RS485* Port) or (1 CAN & 1 RS485* Port)
- 2 Analog Inputs, 6 Digital Inputs & 3 Digital Outputs
- Data Storage with Storage Capacity Of 40000 Records)
- Remote Health Checking / Diagnostics Through SMS
- All Parameter Configuration through SMS & USB
- Long Battery Backup up to 8 hrs. with inbuilt 700mAh Battery
- Low power consumption & power optimization
- VFOTA - ECU programming over the air

Technical Specification

Parameters	Description
Core	ARM® CortexTM- A7 (1.3G Hz)
Telecom Core	Dual Q DSP6 (600MHz)
Memory	4 G B solid state F lash, 100K Erase and Program Cycle, 10 year data retention
Cellular Module	4G: CAT4, 3G: HSPA+ & UTMS, 2G : EDG E, GSM, GPRS
GNSS Module	GPS, GLONASS, Galileo, Beidou: 118 Acquisition -/ 40 tracking channels, Ultra high tracking/navigation sensitivity: -160dBmInbuilt patch antenna, < 5m CEP-50
Antennae	Internal
Communication Interface	TCP/IP
Record Storage/buffer	120000 Tracking Records.(may vary based on configuration and parameter chosen)
Ports	1-USB Device type, 2 RS232, 1 CAN, 3 Analog Input, 5 Digital Inputs, 3 Digital Outputs
Speed Sensor	GNSS (default), Real time(VSS Interface)
SIM Interface	Supports SIM card: 1.8V & 3V / Embedded SIM (optional)
LED Indication	Processing, Cellular, G NSS, USB Detection
Connectors	36 Pin power mate connector
Power Supply	Wide DC input voltage range (9V - 32V)
Current Consumption	300mA(Max) during Transmission, 80mA during

tracking, 20mA during Standby Internal Battery
700mah, 5 to 8 hr backup, can be charged from
USB interface /cable also

Enclosure

Rugged IP 67 rated ABS Plastic Casing

Temperature

Operating: -20° C to +60° C
Storage: -20° C to +85° C
(Without Battery)

Dimension

150 x 100 x 30 mm

Weight

200 grams

FOTA

Firmware upgrade over the air available

Other Interfaces

Tamper Alert, Audio, 1Wire

Geo Fencing

Polygonal Geo Fencing available

Connectivity

Wi-Fi (Hotspot), Bluetooth, Cellular

UX 101: Supported Accessories



Immobilization Relay



Fuel Sensor



RFID Reader



Panic Button



IP/USB Camera