

AT900 LTE Cat 1 bis + 2G / GNSS Vehicle Tracking Device



IP67 Waterproof



Internal
170mAh
battery



LTE Cat 1 +
2G fallback



up to 90V
operation



4FF nano SIM



Dual band GNSS
(L1+L5)



MEMS IMU
6 axis



Internal antennas



5 year warranty



FOTA
Firmware update
Over-the-air



External LED
status indicators



BLE

Technical Specifications

LTE / GSM Communications

Communications Module:	Quectel EG915U-EU
LTE Cat 1 Frequency Bands:	B1/B2/B3/B5/B7/B8/B20/B28
GSM Frequency Bands:	B2/B3/B5/B8
LTE / GSM Antenna:	Internal PIFA
SIM:	4FF plastic SIM, hinged, fold and slide type holder

Dual Band (L1 + L5) GNSS Location

GNSS Antenna:	Internal dual band 25mm ceramic patch
GNSS Receiver:	ICOE CC0258B
L1/B1 Receiver:	GPS: L1C/A, L1C*, L5 Galileo: E1B/C, E5b, E5a BDS: B1I, B1C*1, B2b*, B2a GLONASS: G1 QZSS: L1, L5 SBAS: L1 NAVIC*: L5
Position Accuracy:	1.0m CEP @ -130dBm
Receiver Sensitivity:	-165dBm (tracking & navigation)
TTFB: Cold start	24s @ -130 dBm & accuracy 2m
Hot start	1s @ -130 dBm & accuracy 1m

Power

External Voltage Source:	5 – 90 VDC
Internal Battery:	3.7V, 170mAh
Battery Life:	5 hours continuous operation 8 days operation in low-power mode @ 1 report per hour 30 days operation in low-power mode @ 1 report per day
Current Consumption, max:	300mA @ 13.8 VDC (battery charging at max. rate)
Current consumption, average:	25mA @ 13.8 VDC (typical)
Current consumption, sleep:	< 100uA

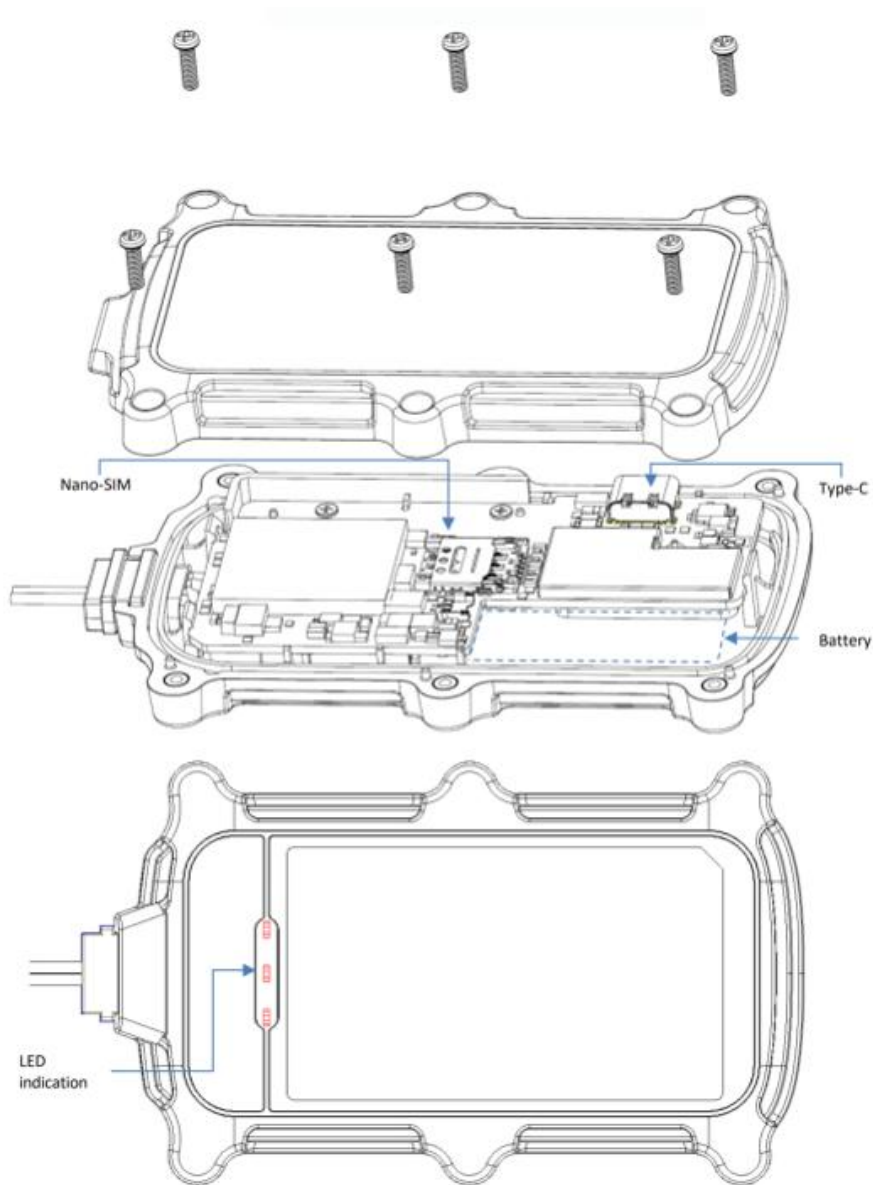
Features

Configuration:	Astra Generic Configuration commands over SMS / TCP / RS232
Firmware update:	Supports Firmware Update Over-The-Air (FOTA)
Memory:	Total 1024k on-board non-volatile flash memory
Report storage:	6000 reports
Communication Protocol:	Astra Telematics Modular Protocol X via TCP / UDP sockets

Interconnections

Power:	2 wire power + ignition detect TTL UART via USB-C connector
SIM:	nano SIM 4FF Format

Weight: 62g
Dimensions: 98 x 57 x 14 mm



ENVIRONMENTAL

Temperature:
Operating -20 to +85°C
Storage -30 to +85°C

Product Approvals: EC Reg 10 / VCA E24 approval pending

Note: Specifications may change without notice.