

AT201 GPRS / LPWA / GNSS Vehicle Tracking Device



[ACTUAL SIZE]



Low power consumption



Internal 900mAh battery



LTE Cat M1 + 2G/GPRS



up to 65V operation



Mini SIM



2 digital inputs



MEMS accelerometer



Internal antennas



CANBus



2 digital outputs



GPS, GALILEO, GLONASS & BeiDou



SDK available



5 year warranty



FOTA
Firmware update
Over-the-air



External LED
status indicators



Dallas 1-wire

Technical Specifications

GSM-EGPRS / LTE Cat M1 / Cat NB2 Communication

Communications Module:	Quectel BG600L-M3
GSM EGPRS Frequency Bands:	850/900/1800/1900 MHz
LTE Cat M1 Frequency Bands:	B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85
Cat NB2 Frequency Bands:	LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85
GSM Antenna:	Internal PIFA PCB trace
Data Transfer Modes:	TCP or UDP

GNSS Location

GPS Receiver:	u-blox SAM-M8Q
GPS Antenna:	Internal 15 x 15 x 4mm ceramic patch
L1 Receiver:	72 channels
Position Accuracy:	2.5m CEP
Receiver Sensitivity:	-165dBm (GPS + GLONASS, tracking & navigation)
TTF: Cold start	26 sec
Hot start	1 sec
Anti-jamming:	Active CW detection and removal; extra onboard SAW band pass filter
Spoofing detection:	Built-in

Power

External Voltage Source:	5 – 65 VDC
Internal Battery:	3.7V, 900mAh
Battery Life:	9 hours continuous operation 12 days operation in low-power mode @ 1 report per hour 40 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

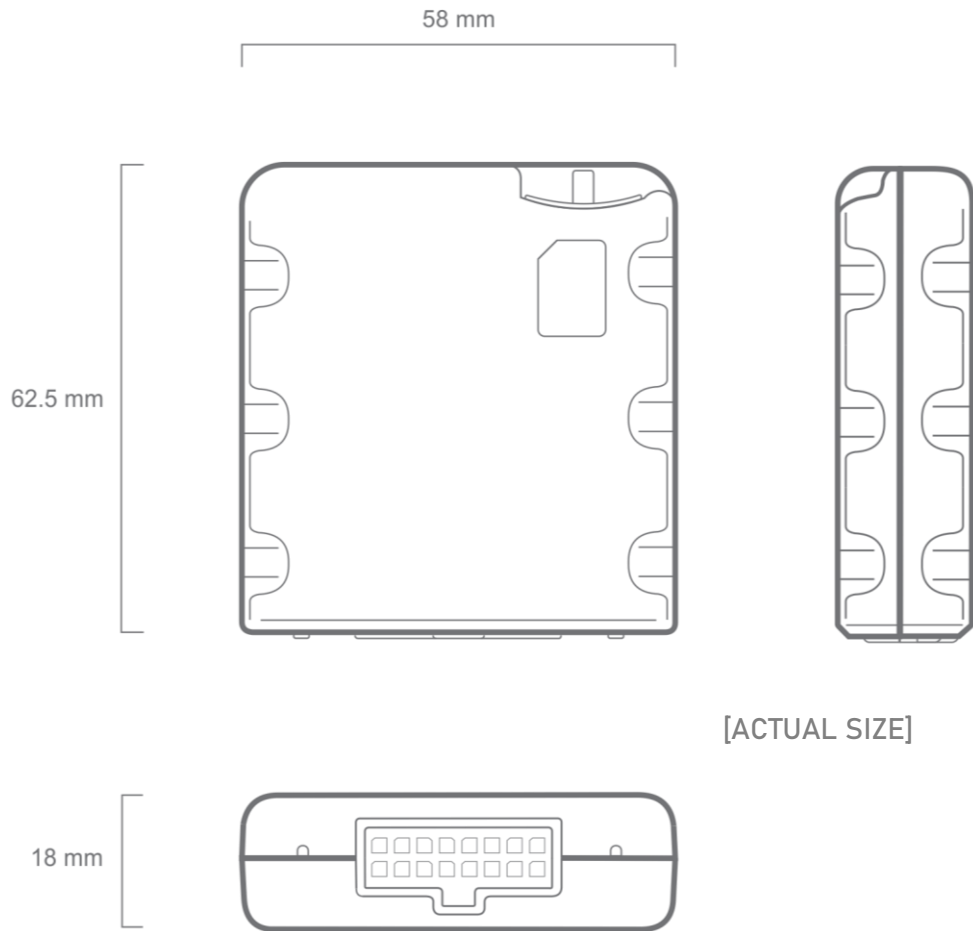
Configuration:	Astra Generic Configuration commands over SMS / TCP / RS232
Firmware update:	Supports Firmware Update Over-The-Air (FOTA)
Memory:	Total 1024k on-board non-volatile flash memory
Report storage:	6000 reports
Communication Protocol:	Astra Telematics Modular Protocol X via TCP / UDP sockets

Interconnections

Interconnections:	2 digital pull-up inputs 2 digital outputs, 60V, 0.5A maximum, open drain (optional 3.3V drive) 1-wire (Dallas) ADC input 0 – 80V range CANBus / FMS 2.0 / OBD2 1 RS232 serial port (TTL levels optional)
SIM:	Mini SIM 2FF Format
POWER & DATA:	Molex MicroFit 3.0, dual row, 16-way male

Weight
Dimensions

55g
62 x 58 x 18 mm



ENVIRONMENTAL

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

Product Approvals: EC Reg 10 / VCA E11 approval pending

Note: Specifications may change without notice.