

## AT406 LTE Cat 1 bis (Global) Tracking Device



Low power consumption



Internal 510mAh battery



IP65 waterproof



up to 90V operation



Dual SIM 4FF + MFF2



4G LTE Cat 1 bis (GLOBAL)



MEMS accelerometer



Internal antennas



CANBus



BLE 4.2



GPS, GALILEO, GLONASS & BeiDou



SDK available



5 year warranty



FOTA Firmware update Over-the-Air



2 digital inputs 2 digital outputs



Dallas 1-wire

## Technical Specifications

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### LTE Global Communication

<b>Communications Module:</b>	Quectel EG916Q-GL
<b>LTE FDD Frequency Bands:</b>	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66
<b>LTE TDD Frequency Bands:</b>	B34/B38/B39/B40/B41
<b>LTE Antenna:</b>	Ceramic
<b>Data Transfer Modes:</b>	TCP / MQTT

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### GNSS Location

<b>GNSS Antenna:</b>	Internal 15 x 15 x 4mm ceramic patch
<b>GNSS Receiver:</b>	Quectel LC86L
<b>L1/B1 Receiver:</b>	GPS L1 C/A: 1574.397–1576.443 MHz GLONASS L1: 1597.781–1605.656 MHz BeiDou B1 C/A: 1559.052–1563.144 MHz
<b>Position Accuracy:</b>	< 2.5m CEP @ -130dBm
<b>Receiver Sensitivity:</b>	-166dBm (GPS + GLONASS, tracking & navigation)
<b>TTF:</b>	<b>Cold start</b> < 15 sec (average) @ -130 dBm <b>Hot start</b> < 2 s (average) @ -130 dBm

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### BLE 4.2

<b>BLE Module:</b>	Silicon Labs BGM123
<b>TX Power:</b>	+3dBm
<b>Sensitivity:</b>	-90dBm
<b>Bluetooth Compliance:</b>	4.2 and earlier

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### Power

<b>External Voltage Source:</b>	5 – 90 VDC
<b>Internal Battery:</b>	3.7V, 510mAh
<b>Battery Life:</b>	9 hours continuous operation 12 days operation in low-power mode @ hourly update 30 days operation in low-power mode @ daily update
<b>Current Consumption, max:</b>	400mA @ 13.8 VDC (battery charging at max. rate)
<b>Current consumption, average:</b>	35mA @ 13.8 VDC 25mA @ 27.6 VDC
<b>Current consumption, sleep:</b>	< 100uA

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### Features

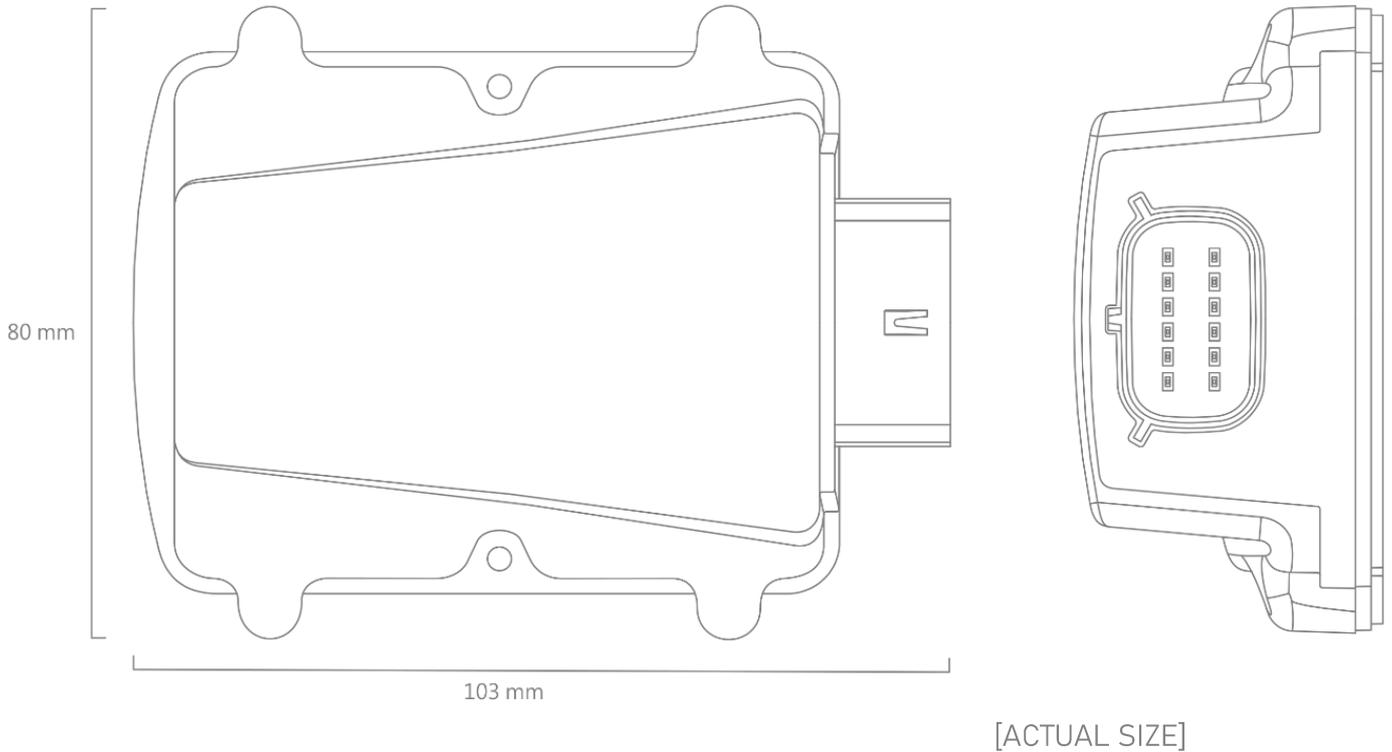
<b>Configuration:</b>	Astra Generic Configuration commands over SMS / TCP
<b>Firmware update:</b>	Supports Firmware Update Over-The-Air (FOTA)
<b>Memory:</b>	Total 1024k on-board non-volatile flash memory
<b>Report storage:</b>	6000 reports
<b>Communication Protocol:</b>	Astra Telematics Modular Protocol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

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### Interconnections

	2 digital pull-up inputs 2 digital outputs, 60V, 0.5A Maximum (MOSFET open drain) 1-wire (Dallas) CANBus / FMS 2.0 / OBD2 1 RS232 serial port
<b>SIM:</b>	nano SIM (4FF), push-push style MFF2 chip SIM option (subject to MoQ and prior arrangement)
<b>POWER &amp; DATA:</b>	Molex MX120G (12 pin)

Weight 80g  
Dimensions 103 x 80 x 39 mm



## ENVIRONMENTAL

**Temperature:**  
**Operating** -20 to +85°C (note: battery charging is suspended at higher temps)  
**Storage** -30 to +85°C

**Product Approvals:** RED 2014 / 53 / EU  
E11\*10R06/01\*TBA\*00

Note: Specifications may change without notice.