

## AT205 LTE Cat 1 bis (4G) / GNSS Vehicle Tracking Device



[ACTUAL SIZE]



Low power  
consumption



Internal  
900mAh  
battery



LTE Cat 1 bis (4G)  
communications



up to 90V  
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

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### LTE Cat 1 bis Communication

|                            |                                          |
|----------------------------|------------------------------------------|
| Communications Module:     | Quectel EG800Q-EU                        |
| LTE Cat 1 Frequency Bands: | B1/B2/B3/B4/B5/B7/B8/B12/B13/B20/B28/B66 |
| LTE Antenna:               | Internal PIFA PCB trace                  |
| Data Transfer Modes:       | TCP or UDP                               |

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### GNSS Location

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

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### Power

|                               |                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| External Voltage Source:      | 5 – 90 VDC<br>95V Absolute maximum                                                                                                                 |
| Internal Battery:             | 3.7V, 900mAh                                                                                                                                       |
| Battery Life:                 | 15 hours continuous operation<br>12 days operation in low-power mode @ 1 report per hour<br>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                                                                                                                                            |

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### 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   |

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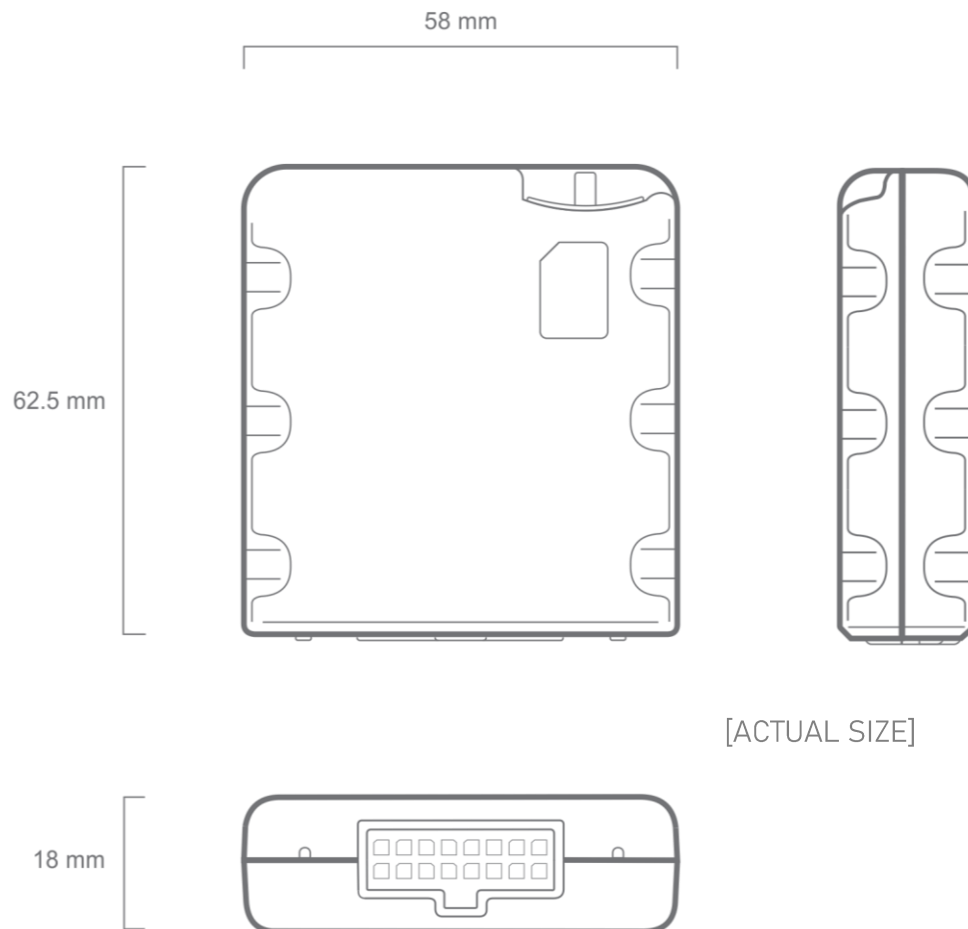
### Interconnections

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

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Weight  
Dimensions

55g  
62 x 58 x 18 mm



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## ENVIRONMENTAL

Temperature:  
Operating  
Storage

-20 to +60°C  
-30 to +85°C

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Product Approvals:

EC Reg 10 / UKCA

E57\*10R06/03\*2362

Note: Specifications may change without notice.