# astra telematics

### AT211 GPRS / LPWA / GNSS / BLE Tracking Device



**External GNSS** antenna (option)



5 year warranty

Firmware update Over-the-Air

2 digital outputs

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### **Technical Specifications**

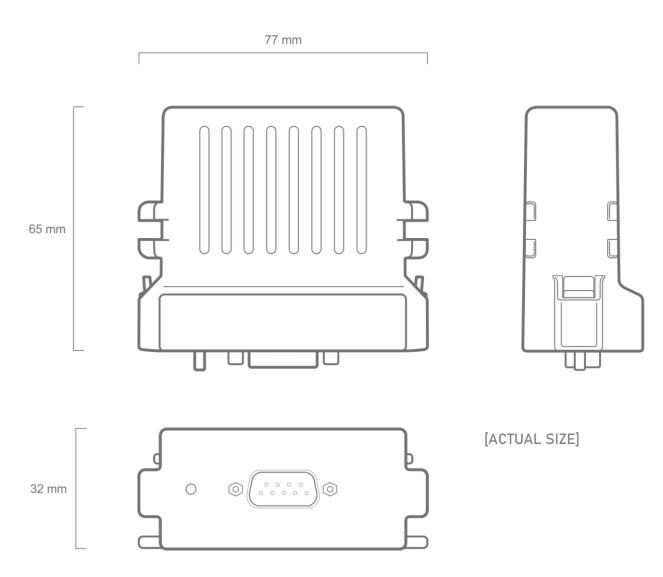
GSM/GPRS/LPWA Communication

Communications Module: GSM EGPRS Frequency Bands: LTE Cat M1 Frequency Bands: Cat NB2 Frequency Bands: GSM Antenna: Data Transfer Modes:	Quectel BG600L-M3 850/900/1800/1900 MHz B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85 Internal PIFA PCB trace TCP or UDP		
GNSS Location			
GNSS Antenna: GNSS Receiver: GNSS Chipset: L1/B1 Receiver: Position Accuracy: Receiver Sensitivity: TTFF: Cold start Hot start	Internal 25 x 25 x 4mm ceramic patch External active antenna (option) via SSMB connector Quectel LG77L Mediatek MT3333 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 < 2.5m CEP @ -130dBm -162dBm (GPS + GLONASS, tracking & navigation) < 15 sec (average) @ -130 dBm < 1 sec (average) @ -130 dBm		
BLE 4.2 (option)			
BLE Module: TX Power: Sensitivity: Bluetooth Compliance:	Silicon Labs BGM123 +3dBm -90dBm 4.2 and earlier		
Power			
External Voltage Source: Internal Battery: Battery Life: Current Consumption, max: Current consumption, average: Current consumption, sleep:	5 – 65 VDC 3.7V, 510mAh 9 hours continuous operation 12 days operation in low-power mode @ hourly update 30 days operation in low-power mode @ daily update 400mA @ 13.8 VDC (battery charging at max. rate) 35mA @ 13.8 VDC 25mA @ 27.6 VDC < 100uA		
Current consumption, steep.	< IUUUA		
Features			
Configuration: Firmware update: Memory: Report storage: Communication Protocol:	Astra Generic Configuration commands over SMS / TCP Supports Firmware Update Over-The-Air (FOTA) Total 1024k on-board non-volatile flash memory 6000 reports Astra Telematics Modular Protocol X TCP / UDP sockets		
Interconnections			
POWER & DATA: (9-way DB9 male)	2 digital pull-up inputs 2 digital outputs, 60V, 0.5A Maximum (MOSFET open drain) 1-wire (dallas) 1 RS232 serial port		
SIM: External GNSS Antenna:	micro SIM (3FF), push-push style SSMB male (jack) 2		

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85g 77 x 65 x 32 mm



#### ENVIRONMENTAL

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

**Product Approvals:** 

RED 2014 / 53 / EU