

# astra telematics

## AT600 Smart Trailer EBPMS / TPMS Device



Low power consumption



3.5 Ah back-up battery with heater



IP69K waterproof



up to 90V operation



Dual SIM  
4FF nano SIM +  
MFF2 chip SIM



4G LTE Cat 1 bis  
+ 2G fallback



6 axis MEMS IMU



433MHz TPMS  
Reader



LED Indicators



BLE 5.1



GPS, GALILEO,  
GLONASS &  
BeiDou



CANBus / EBPMS



5 year warranty



FOTA  
Firmware update  
Over-the-Air



2 digital inputs



2 digital outputs

## Technical Specifications

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### LTE / GSM Communication

Communications Module:	Quectel EG916N-EA
LTE FDD Frequency Bands:	B1/B3/B5/B7/B8/B20/B28
LTE TDD Frequency Bands:	B38/B40/B41
GSM Frequency Bands:	B3/B8
LTE Antenna:	Ceramic
Dual SIM:	Plastic nano SIM (4FF), push-push style with retainer MFF2 chip SIM

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### GNSS Location

GNSS Antenna:	Internal 15 x 15 x 4mm ceramic patch
GNSS Receiver:	ICOE CS101
Concurrent GNSS Receiver:	GPS L1 C/A: 1574.397–1576.443 MHz GALILEO E1: 1563.440–1587.696 MHz GLONASS L1: 1597.781–1605.656 MHz BeiDou B1 C/A: 1559.052–1563.144 MHz
Position Accuracy:	1.5m CEP
Receiver Sensitivity:	-167dBm (tracking & navigation)
TTF: Cold start	27 sec (average) @ -130 dBm
Hot start	1 sec (average) @ -130 dBm

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### BLE 5.2 (option)

BLE Module:	ST BlueNRG-LP
TX Power:	+8dBm
Sensitivity:	-97dBm
Bluetooth Compliance:	5.2 and earlier

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### Power

External Voltage Source:	5 – 90 VDC
Internal Battery:	3.7V, 3500mAh, lithium-ion, with heater
Battery Heater:	5W
Battery Life:	48 hours continuous operation 60 days operation in low-power mode @ hourly update 120 days operation in low-power mode @ daily update
Current Consumption, max:	250mA @ 24 VDC (battery charging at max. rate)
Current consumption, average:	10mA @ 24 VDC
Current consumption, sleep:	< 100uA

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### Indicators

Status LEDs (externally visible):	Communications (BLUE) GNSS (GREEN) CANBus (RED)
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### EBS Compatibility

EBS Valves Supported:	Haldex Gen3 & Gen4 Wabco ZF TEBS E Knorr-Bremse TEBS G2
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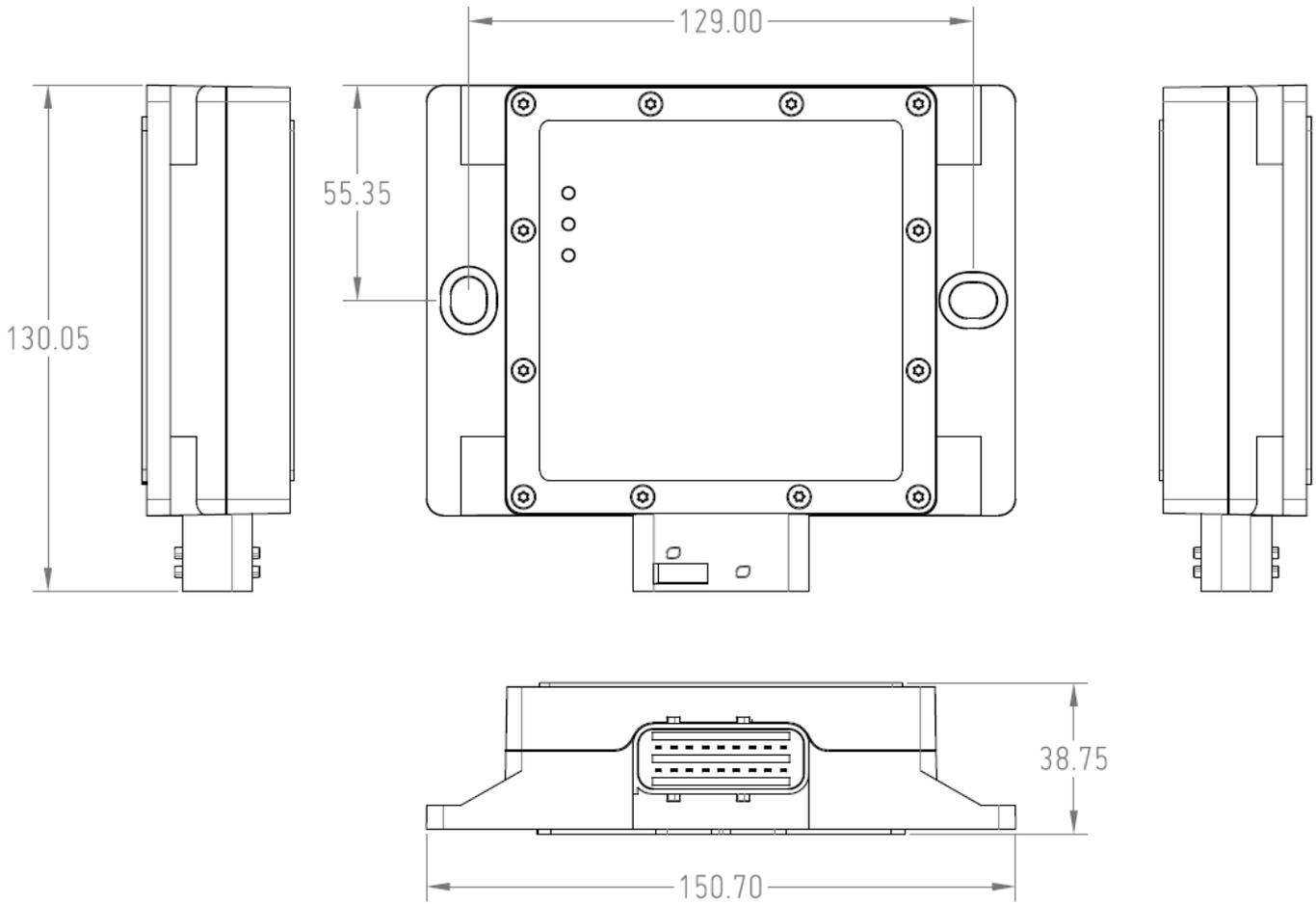
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### Interconnections

POWER & DATA: (18-way HDSCS)	2 digital pull-up inputs 2 digital outputs, 60V, 0.5A Maximum (MOSFET open drain) CANBus with switchable 120R termination RS232 serial port
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Weight 315g  
 Dimensions 151 x 130 x 39 mm



## Mounting

Fasteners 2 x M8 bolts

## Environmental

Ingress Protection: IP69K  
 Temperature  
 Operating: -20 to +85°C (note: battery heater allows charging at low ambient temperatures)  
 Storage: -30 to +85°C

Product Approvals: EC Reg 10 / UKCA

Note: Specifications may change without notice.