

## AT240 Advanced Vehicle Tracking Device



- 5 year warranty included as standard!
- CANBus / FMS 2.0 / OBD2 interface
- Very low idle power consumption
- ublox EVA-M8M GNSS, supporting GPS, GALILEO, GLONASS and BeiDou
- ublox SARA-U201 UMTS/HSPA penta-band modem (3G/GPRS)
- GNSS supports GPS, GLONASS, GALILEO & BeiDou
- BLE 4.2 (option)
- Internal back-up battery – 3 hrs continuous or 3 days in hourly update mode
- IP67 weather-proof enclosure
- 3 axis MEMS based accelerometer for driver behaviour reporting + motion detection
- 6 digital inputs
- 5 digital outputs, using open-drain MOSFET switches
- 2 ADC inputs
- 2 RS232 serial ports
- 1-wire iButton (Dallas Key) driver ID
- 1-wire (DS18B20) temperature sensors
- RFID/NFC card reader interface for driver ID
- Simple and flexible user configuration by ASCII terminal, SMS or GPRS
- Over the air firmware update – fast and reliable, typically 2-3 minutes to complete
- Tamper detection – reports when device is removed from the enclosure
- Modular communications protocol 'X'
- SDK option available

## TECHNICAL SPECIFICATIONS

<b>UMTS/HSPA Communications:</b>	800/850/900/1900/2100 MHz
<b>GSM/GPRS Communications:</b>	850/900/1800/1900 MHz
<b>GSM Antenna:</b>	PIFA ceramic, quad band (internal)
<b>GPS Antenna:</b>	25mm ceramic patch (internal)
<b>GPS Receiver:</b>	EVA-M8M
L1 receiver:	72 channels
Position accuracy:	2.5m CEP
Receiver sensitivity:	-164dBm (tracking)
TTFF: Cold start	26 sec
Hot start	1 sec
<b>Bluetooth:</b>	BLE 4.2 (and earlier)
TX Power:	+3dBm
Sensitivity:	-90dBm
<b>Input voltage:</b>	6 – 50 volts DC
<b>Internal Battery:</b>	3.7V, 510mAh
<b>Battery Life:</b>	3 hours continuous operation 3 days operation in hourly update mode
<b>Data transfer modes:</b>	TCP or UDP
<b>Inputs/outputs:</b>	4 digital pull-up inputs 2 digital pull-down inputs 5 digital outputs (MOSFET low-side switches) 2 ADC inputs (0-5V and 0-15V range) CANBus / FMS 2.0 / OBD2 2 RS232 serial ports
<b>Current consumption, max:</b>	300mA @ 13.8 VDC (battery charging at max. rate)
<b>Current consumption, average:</b>	25mA @ 13.8 VDC (typical)
<b>Current consumption, sleep:</b>	< 100uA
<b>Dimensions:</b>	104 x 85 x 23 mm
<b>Weight:</b>	100g
<b>Ingress Protection:</b>	IP67
<b>Temperature:</b>	
Operating	-20 to +85°C (note: battery charging is suspended at higher temps)
Storage	-30 to +85°C
<b>Connectors:</b>	
Power and Data	Samtec RC5, 30 way
<b>SIM:</b>	micro SIM (3FF), push-push style
<b>Product Approvals:</b>	EU Directive 2014/53/EU "Radio Equipment Directive" E11*10R05/01*10245*00 FCC ID XPY1CGM5NNN

**Note: Specifications may change without notice.**