


AT240 Advanced Vehicle Tracking Device



- ☺ 5 year warranty included as standard!
- ☺ CANBus / FMS 2.0 / OBD2 interface
- ☺ Very low idle power consumption – virtually zero battery drain on a parked vehicle
- ☺ ublox EVA-M8M GNSS, supporting GPS, GALILEO, GLONASS and BeiDou
- ☺ ublox SARA-U201 UMTS/HSPA penta-band modem (3G/GPRS)
- ☺ 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
- ☺ Gritter / sweeper data – supports a wide range of controller protocols
- ☺ 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
- ☺ Designed and assembled in the United Kingdom 

TECHNICAL SPECIFICATIONS

E-GSM/GPRS Modem:	2 Watts (E-GSM900 and GSM850 Class 4) 1 Watt (GSM1800 and GSM1900 Class 1) GPRS multi-slot class 10
GSM up-link (TX): Frequencies	824 – 849 MHz, 880 – 915 MHz, 1710 - 1785 MHz, 1850 – 1910 MHz
GSM down-link (RX): Frequencies	869 – 894 MHz, 925 - 960 MHz, 1805 - 1880 MHz, 1930 - 1990 MHz
GSM Antenna:	PIFA ceramic, quad band (internal)
GPS Antenna:	25mm ceramic patch (internal)
GPS Receiver:	EVA-M8M
L1 receiver:	72 channels
Position accuracy:	2.5m CEP
Receiver sensitivity:	-164dBm (tracking)
TTF: Cold start	26 sec
Hot start	1 sec
Input voltage:	6 – 36 volts DC
Internal Battery:	3.7V, 450mAh
Battery Life:	6 hours continuous operation 3 days operation in hourly update mode
Data transfer modes:	GPRS (TCP or UDP)
Inputs/outputs:	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
Current consumption, max:	300mA @ 13.8 VDC (battery charging at max. rate)
Current consumption, average:	25mA @ 13.8 VDC (typical)
Current consumption, sleep:	< 100uA
Dimensions:	104 x 85 x 23 mm
Weight:	180g
Ingress Protection:	IP67
Temperature:	
Operating	-20 to +85°C (note: battery charging is suspended at higher temps)
Storage	-30 to +85°C
Connectors:	
Power and Data	Samtec RC5, 30 way
Product Approvals:	CE, 2004/104/EC

Note: Specifications may change without notice.