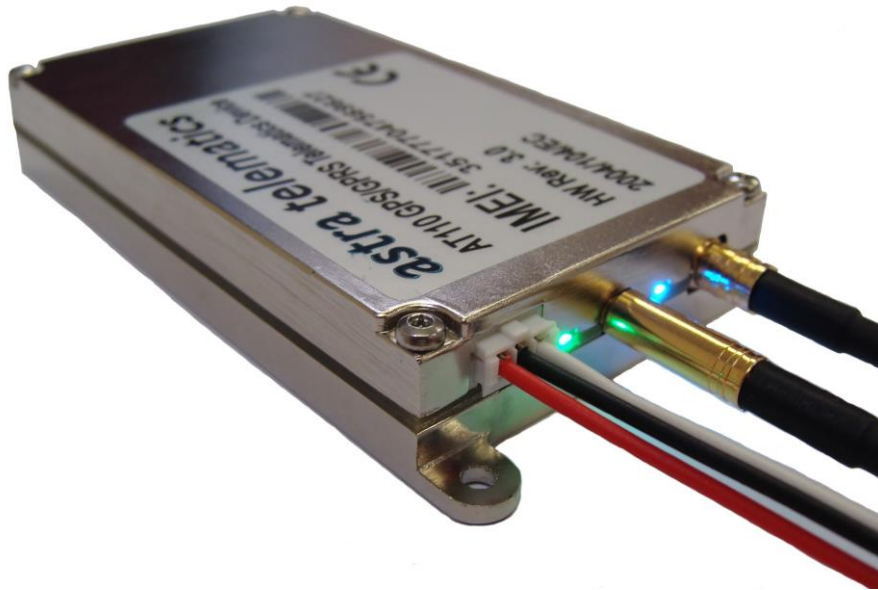



AT110 Advanced Vehicle Tracking Device



- Compact dimensions – approximately 'Swan Vestas' matchbox size
- CANBus / FMS 2.0 / OBD2 interface
- Very low idle power consumption – virtually zero battery drain on a parked vehicle
- SiRFStar IV GPS and Telit GE865 GSM/GPRS modem
- Internal back-up battery – 10 hrs continuous, 8 days in hourly update mode
- GPRS TCP or UDP mode reporting
- Rugged aluminium alloy enclosure
- 3 axis MEMS based accelerometer for driver behaviour reporting + motion detection
- 4 digital inputs
- 2 digital output switches using MOSFETs
- 2 digital output switches using solid state relays
- 2 ADC inputs
- 2 RS232 serial ports
- Driver Behaviour Indicator option, 3-LED, auto-dimming
- iButton (Dallas Key) input for driver ID
- RFID/NFC card reader option 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
- Simple and efficient reporting protocols – to minimise airtime usage and cost
- 5 year warranty included as standard
- 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:	external
GPS Antenna:	external
GPS Receiver:	SiRFStar IV
L1 receiver:	50 channels
Position accuracy:	2.5m CEP
Receiver sensitivity:	-160dBm (tracking)
TTFF: Cold start	29 sec
Hot start	1 sec
Input voltage:	7 – 36 volts DC
Internal Battery:	3.7V, 850mAh
Battery Life:	10 hours continuous operation 8 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 2 relay switches (max 1.0A, 30V) 2 MOSFET low-side switches 2 ADC inputs (0-5V and 0-15V range) CANBus / FMS 2.0 2 RS232 serial ports
Current consumption, max:	300mA @ 12 VDC (battery charging at max. rate)
Current consumption, average: @ 13.8 VDC (typical)	25mA @ 13.8 VDC (typical) < 4mA (sleep mode - without battery) < 50uA (sleep mode - battery fitted)
Dimensions:	85 x 47 x 15 mm (3.3" x 2.0" x 0.6")
Weight:	180g
Temperature:	
Operating	-20 to +85°C (note: battery charging is suspended at higher temps)
Storage	-30 to +85°C
Connectors:	
GPS	SSMB
GSM	MCX
Data	Hirose ST40X-36S, 36 way
Power	Leotronics 2012-2031 or JST PHR-3 (3 way plug)
Product Approvals:	CE, 2004/104/EC

Note: Specifications may change without notice.