


AT210 Plant & Machinery Tracking Device



HIGHLIGHTS

- 5 year warranty included as standard!
- Compact IP67 weather-proof enclosure
- Integrated antennas + external GPS antenna option
- 3 day internal battery life @ hourly update using low-power mode
- uBlox EVA-M8M GNSS with 25mm ceramic patch antenna
- Quectel M66 GSM/GPRS/Bluetooth modem
- 3 axis MEMS based accelerometer for driver behaviour reporting + motion detection
- 2 digital inputs
- 2 digital outputs using MOSFET switches
- 1-wire (DS18B20) temperature sensors
- iButton (Dallas Key) driver ID
- Bluetooth based driver ID
- RFID / NFC card based driver ID
- Tow alerts
- Status LED indicators for GSM and GPS (internal)
- TCP or UDP mode reporting
- SMS diagnostics
- Modular communications protocol 'X'
- Over the air firmware update – fast and reliable, typically 2-3 minutes to complete
- SDK option available
- Designed and assembled in the United Kingdom 

TECHNICAL SPECIFICATIONS (hardware version 5.x)

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 PCB trace antenna, quad band (internal)
Bluetooth Antenna:	PIFA PCB trace antenna (internal)
GPS Antenna:	25mm ceramic patch (internal)
GNSS Receiver:	ublox EVA-M8M GPS, GLONASS, GALILEO & BeiDou
L1 receiver:	72 channels
Position accuracy:	< 2.5m CEP
Receiver sensitivity:	-160dBm (tracking)
TTFB: Cold start	26 sec
Hot start	1 sec
Input voltage:	6 – 36 volts DC
Internal Battery:	3.7V, 450mAh, lithium-polymer
Battery Life:	6 hours continuous operation 3 days operation in hourly update mode
Data transfer modes:	GPRS (TCP/UDP) SMS PDU
Inputs/outputs:	2 digital inputs 2 digital outputs, MOSFET open-drain switches 1 RS232 serial port iButton
Driver ID:	iButton, Bluetooth or RFID/NFC card (using CR001 external reader)
Current consumption:	25mA @ 13.8 VDC (typical) < 4mA (sleep mode - without battery) < 50uA (sleep mode - battery fitted)
Dimensions:	77 x 69 x 32 mm
Weight:	150g (with battery)
Ingress Protection:	IP67
Temperature: Operating Storage	-40 to +85°C (note: battery charging is suspended at higher temps) -40 to +85°C
Connector:	DB9 male
Mating Cable Assembly:	LTWSDB-09AFFM-SL7A0.4
Product Approvals:	CE, 2004/104/EC

Note: Specifications may change without notice.