

AT220 Ruggedised Tracking Device



- ☺ Latest SiRFstarIV GPS - 48 channels and -163dBm sensitivity
- ☺ GPS Jamming detection and filtering
- ☺ Integrated Antennas – simple and quick installation
- ☺ Compact size – approximately cigarette packet dimensions
- ☺ Wide DC power input – no need for voltage droppers
- ☺ Internal back-up battery option – 18 hrs continuous operation
- ☺ GPRS (TCP or UDP), SMS PDU and SMS Text modes
- ☺ IP67 Weather-proof enclosure
- ☺ iButton for driver ID - can be linked to vehicle immobiliser
- ☺ Detailed driver behaviour data - accel / decel / cornering / idling / overspeed
- ☺ Motion sensor
- ☺ Auto-sensing of engine status (stopped/running) from power feed (2 wire install)
- ☺ Dual 3 axis MEMS based accelerometers, normal range and Hi-G (AT220B)
- ☺ CANBus (AT220B)
- ☺ up to 3 digital inputs + 1 digital output + 1 ADC + 1 RS232
- ☺ Simple and flexible user configuration by RS232, SMS or GPRS
- ☺ Remote diagnostics by GPRS or SMS
- ☺ On-board zone alarm function
- ☺ Over the air firmware update in less than 2 minutes
- ☺ Intelligent and efficient reporting protocols – to minimise airtime usage and cost
- ☺ 3 year warranty included as standard

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
GPS Receiver:	
L1 receiver:	48 channels
Position accuracy:	< 2.5m CEP autonomous
Receiver sensitivity:	-163dBm (tracking)
TTF:	
Cold start	< 35 sec
Warm start	< 32 sec
Hot start	< 1 sec
Input voltage:	8 – 32 volts DC
Input Protection:	Reverse polarity, overvoltage, internal self-resetting fuse
Internal Battery:	3.7V, 1700mAh, lithium
Battery Life:	12 hours continuous operation 10 days operation in hourly update mode
Data transfer modes:	GPRS (TCP/UDP) SMS PDU
Inputs/outputs:	1 digital input 1 digital output (AT220A only) 1 RS232 serial port 1 ADC input (AT220A only) CANBus (AT220B only) iButton (this can alternatively be used as an extra digital input)
Driver ID:	iButton
Current consumption:	25mA @ 13.8 VDC (typical) < 4mA (sleep mode - without battery) < 50uA (sleep mode - battery fitted)
Dimensions:	95 x 65 x 30 mm (3.7" x 2.6" x 1.2")
Weight:	160g (with battery)
Ingress Protection:	IP67
Temperature:	
Operating	-40 to +85°C (no battery) -20 to +60°C (with battery)
Storage	-40 to +85°C
Connector:	M12 8 pin male (industry standard)
Mating Cable Assembly:	Tyco PN 1838344-1 (Straight) or 1838392 (Right Angle)
Product Approvals:	CE, 2004/104/EC, FCC, A-tick

Note: Specifications may change without notice.