Enduro Plus 4G
Data Sheet

Multi-Purpose 4G LTE Tracking Device

The water resistant Enduro Plus 4G asset trackers are designed for personal, lone worker, vehicle, pet and asset tracking applications. The ergonomically designed button makes the Enduro Plus 4G ideal for applications requiring rapid emergency alert or instant geo-fencing based on current location. Asset trackers within the series support 2G GSM, LTE CAT-M1 (eMTC), LTE CAT-M2 (NB-IoT) on many bands supporting North American and European Cellular Operators. The built-in GNSS receiver has best in class sensitivity and supports fast time to first fix. The built-in 3-axis accelerometer allows motion detection and extends battery life through proprietary power management algorithms. System integration is straightforward as complete documentation is provided for the full featured @Track protocol. The @Track protocol supports a wide variety of reports including emergency, geo-fence boundary crossings, low battery and scheduled GPS position..

Highlights

- Multi-constellation GNSS supporting the GPS, GLONASS and Beidou systems
- Thumb sized button with haptic feedback allowing confirmed emergency alert or instant geo-fence setting
- Low power consumption, long standby time with internal battery
- Full power management, can be connected to external DC power or battery
- Internal 3-axis accelerometer for power saving and motion detection
- Water resistant
- Enduro Plus 4G sub-models provide optional internal Bluetooth version

Model No.	Region	Technology	LTE Category	Operating Band	Certificate
Enduro Plus 4G-A	North America	LTE	eMTC	LTE: B2/B4/B12/B13	PTCRB/FCC/Verizon /AT&T
Enduro Plus 4G-E	Europe	GSM/LTE	eMTC/NB-IoT	GSM: 900/1800 MHz LTE: B3/B8/B20	CE/E-Mark

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RF Specification

	Enduro Plus 4G-A	Enduro Plus 4G-E
GSM Frequency		900/1800 MHz
GSM Data Transmission		GPRS multi-slot class 12 EDGE multi-slot class 12
LTE Operating Band	B2/B4/B12/B13	B3/B8/B20
LTE Data Transmission	eMTC (DL) 300kbps eMTC (UL) 375kbps	eMTC (DL) 300kbps eMTC (UL) 375kbps NB1 (DL) 34kbps NB1 (UL) 66kbps

GNSS Specification

GPS Type	Qualcomm Gen 8C GNSS receiver
Sensitivity	Cold start: -148 dBm Tracking: -159 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m
TTFF (Open Sky)	Cold start: 30s average Hot start: 1s average

Interfaces

Digital Inputs	Two digital inputs One positive trigger for ignition detection One negative trigger input for normal use
Power Button	Power on and power off, can be disabled via air interface protocol
Function Button With Vibration Feedback	Emergency alert or instant geo-fence
UMTS/HSDPA and GSM Antennas	Internal only
GPS Antenna	Internal only
Indicator LED	CEL, GPS and power
Mini USB Interface	For external power and configuration

Bluetooth Specification (Optional)

Frequency	2.4 GHz RF transceiver compatible with Bluetooth Low Energy (BLE)
Receiver Sensitivity	-88 dBm
Max out RF Power	Up to 10 dBm
BT Antenna	Internal only

General Specification

Dimensions	77.9mm*39.9mm*26.7mm
Weight	93g
Internal Battery	Li-Polymer 2600 mAh
Standby Time	Without reporting: 400 hours 5 minutes reporting: 140 hours
Water Resistance	IPX5 compliant
Charging Voltage	5V DC
External Battery Voltage	3.5V to 4.2V DC
Operating Temperature	-20℃ ~ +55℃

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status according to preset time inervals
Geo-fence	Support up to 20 geo-fence regions
Power On/Off Report	Report when the device is powered on or off
Low Power Alarm	Alarm when battery is low
SOS/Emergency Alarm	SOS alarm when function key is pressed
Special Alarm	Special alarm based on digital input
Motion Detection	Motion alarm based on internal 3-axis accelerometer

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