



Enduro Plus CDMA Data Sheet

Multi-Purpose CDMA2000 1xRTT Tracking Device

The water resistant Enduro Plus CDMA is a powerful GPS locator designed for lone worker, vehicle, pet and asset tracking applications. The thumb sized button makes this device ideal for applications requiring rapid notification of emergency alert or regular setting of geo-fences based on current location. Its built-in GPS receiver has superior sensitivity and fast time to first fix. Its CDMA2000 1xRTT allows the Enduro Plus CDMA's location to be monitored in real time or periodically tracked by a backend server and mobile devices. Its built-in 3-axis accelerometer allows motion detection and extends battery life through sophisticated 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

- Thumb Sized Button Allowing Easier Emergency Alert or Instant Geo-fence Setting
- Vibration Feedback Confirming Successful Button Operation
- Water Resistant
- Full Power Management

Advantages

- Water resistant
- Dual band CDMA2000 1xRTT frequencies 800/1900 MHz
- Embedded full featured @Track protocol
- Internal u-blox chipset
- Internal CDMA/GPS antennas
- Thumb sized button allowing easier emergency alert or instant geo-fence setting
- Internal 3-axis accelerometer for power saving and motion detection
- Full power management, can be connected to external DC power or battery
- FCC/Verizon certified

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Multi-Purpose Tracking Device



CDMA Specification

Frequency	Dual band: BC0/BC1 Compliant to CDMA2000 1xRTT
Max Data Rate	153.6 Kbps
Max Out RF Power	23 ~ 25 dBm
Min Out RF Power	< -50 dBm
Dynamic Input Range	-25 ~ -110 dBm
Receiving Sensitivity	BC0: -110 dBm BC1: -107 dBm
Max Frequency Error	800 MHz band: ± 300 Hz 1900 MHz band: ± 150 Hz

General Specification

Dimensions	78.5mm*38.5mm*22.5mm
Weight	67g
Internal Battery	Li-Polymer 1300 mAh
Water Resistance	IPX5 compliant
Charging Voltage	5V DC
External Battery Voltage	3.5V to 4.2V DC
Operating Temperature	-20°C ~ +55°C

GPS Specification

GPS Chipset	56-channel u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m SBAS: < 2.0m
TTF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status according to preset time schedules
Geo-fence	Support up to 5 internal 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

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 by the air interface protocol
Function Button with Vibration Feedback	Emergency alert or instant geo-fence
GSM/GNSS Antennas	Internal only
Indicator LED	GSM, GPS and battery status
Mini USB Interface	For external power and configuration



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