Tracking Hardware UK

CelloTrack LTE Plus

Next Level Asset Management & Sensor Tracking Solutions

The CelloTrack LTE Plus product line is designed for advanced asset tracking with remote monitoring, that features enhanced functionality, robustness and ease of installation. The CelloTrack LTE Plus is suitable for a wide variety of asset management applications that require a long operational life with or without a power source.

The CelloTrack LTE Plus product line is available in 3 HW variants:

CelloTrack Standalone

Rechargeable unit designed for non-powered assets

CelloTrack Power Rechargeable unit designed for assets which have a power connection

CelloTrack 10Y

Non-rechargeable unit which enables up to 10 years of operational lifetime

Taking Asset Tracking to the Next Level

Highlights

- Based on LTE Cat 1 NA modem with 3G as a fallback network and LTE Cat 1 EU with 3G and 2G as fallback networks
- Supports a Short-Range RF Wireless Sensor Network
- GPS and GLONASS positioning for greater accuracy and more versatility
- Rugged housing with IP67 rating
- 3D accelerometer for movement and towing detection
- MMI: programmable push button (on/off/test/panic) and two monitoring LEDs for GSM/GNSS status
- ISO16750 compliance (shock, temperature, humidity, UV, chemical, salt)
- Up to 100 built-in Geo-Fences
- Supports OTA configuration and FW upgrades
- Tampering detection mechanism to detect tampering of device from mounting surface



Use Cases

Logistics, Cold Chain & Security

The CelloTrack product line enables you to verify that the required shipment conditions of highvalue goods shipped from manufacturer sites or distribution centers are kept according to the defined specifications. Real-time alerts are generated when the goods are mishandled – for example, if they are unloaded at the wrong address, deviate from the planned route, or are opened unexpectedly. The CelloTrack product line, used with MultiSense devices, enables on-the-fly responses when breaches of the required temperature or humidity thresholds occur, and enables compliance with the strictest cold chain regulations (EN 12830).

Construction & Heavy Equipment

Trucks, earth-movers, paving equipment, dumpsters, generators and machinery – often left for long periods on construction sites – are expensive to replace and, if stolen, can significantly interrupt work progress. The robust, water and dust resistant CelloTrack device can easily be deployed and concealed on all types of heavy equipment. The device will immediately generate alerts when the equipment is moved and provide its precise location to the stakeholder. The CelloTrack 10Y, with a 10 year operational lifetime using a non-rechargeable battery, can be used for assets located in hard to reach locations, where maintenance is not possible to perform.

Rental Equipment

The easy to install CelloTrack device enables stakeholders to remotely and efficiently monitor the status of their rented assets' usage, including storage containers, construction machines, electricity generators, caravans, chemical toilets and more. During the rental period, the location, displacement, operation hours (by movement), door status and other inventory management aspects for adherence of contractual obligations can all be monitored. The CelloTrack 10Y device is ideal for long term leasing applications where the unit is installed for several years, and then no longer used.

Track it All





CelloTrack Standalone

CelloTrack Standalone

A self-powered, mobile tracking device equipped with a durable and longlife rechargeable battery that functions without direct access to power. It also supports wireless sensor connectivity and has high resilience under severe conditions.

CelloTrack Power

CelloTrack Power

A rechargeable tracking device with an internal charger and wireless sensor connectivity, suitable for permanent installations where external power sources exist. Its versatile GPIO provides additional monitoring and control capabilities where required.

Highlights

- Dual tampering detection mechanism to detect tampering of device from cradle and/or cradle from mounting surface.
- Two configurable general-purpose inputs/outputs (GPIO) supporting digital, analog and frequency counter inputs.
- Easy installations, utilizing built-in zip tie holes or optional magnetic cradle.
- Long operation time (up to 20 months @ 1 transmission / day) via 5.3 Ah of rechargeable Lithium-polymer battery.
- Extended operating temperature range -30°C to 70°C.

CelloTrack 10Y

Asset tracking device with an operational lifetime of up to 10 years, using a non-rechargeable battery and including wireless sensor connectivity. This makes it ideal for long-term remote applications requiring minimal or no maintenance at all, and is suitable for use in extreme operating temperatures in which charging and performance can be challenging.

Highlights

- 10 years @ 1 transmission / day (42.5Ah non-rechargeable battery pack)
- Extended operating temperature range -30°C to 75°C
- Supports a Short-Range RF Wireless Multi-Sensor Network (including Temperature, Humidity, Impact, Light, Door Contact, Movement)
- Easy installation using screws, fasteners or an optional magnetic cradle

Cargo Solutions

CelloTrack Container Lock

A unique container tracking solution based on the CelloTrack and encased in a hardened enclosure, providing robust cargo monitoring with ease of installation and removal.

CelloTrack Security Seal

The CelloTrack Seal is based on the CelloTrack and is encased in a hardened enclosure. It uses a stainless steel electronic wire rope available in different cable lengths - which can be quickly installed in virtually any type of truck, container trailer, tanker truck, warehouse or critical zone doors.

The Seal detects the Lock's opening, wire rope cutting or tampering to generate alerts of any unauthorized intrusion attempts.





CelloTrack Security Seal

CelloTrack LTE F	Plus Spe <u>cifications</u>	
Communication	CelloTrack LTE Standalone/Power	CelloTrack 10Y
Cellular communication	Cello Irack LI E Standalone/Power Cello Irack 10Y LTE Cat 1 NA with 3G Fallback LTE NA: Bands 2, 4, 5, 12 (700, 850, 1700/2100 (AWS), 1900 MHz), data rates: 10.2[DL] / 5.2[UL] Mbps 3G NA: UMTS Bands 5, 4, 2 (850, 1700/2100 (AWS), 1900); HSPA 5.76[UL]/7.2[DL] Mbps Packet Data: TCP/IP, UDP/IP SMS: PDU mode LTE EU: Bands 1, 3, 8, 20. 28 (700, 800, 900, 1800, 2100 MHz), data rates: 10.2[DL] / 5.2[UL] Mbps 3G EU: UMTS Bands 1, 8 (900, 2100 MHz); HSPA 5.76[UL]/7.2[DL] Mbps 2G EU: GSM 900, 1800 MHz; GPRS: 24[UL]/48[DL] Kbps	
SIM	Internal, Micro Sim, replaceable, 1.8/3V Optional SIM on chip Remote PIN code management	Internal, full size replaceable, 1.8/3V Optional SIM on chip Remote PIN code management
Antenna	Internal, multi-band antenna	Internal, multi-band antenna
GNSS	CelloTrack LTE Standalone/Power	CelloTrack 10Y
Technology	Internal module, CSR SiRFstarV™ based GPS and GLONSS supported	Internal module, CSR SiRFstarV™ based GPS and GLONSS supported.
Sensitivity (tracking)	-165dBm	-165dBm
Acquisition (normal)	Cold <27 Sec, Warm<10 Sec, Hot<1 Sec	Cold <27 Sec, Warm<10 Sec, Hot<1 Sec
Antenna	Internal, on board patch antenna	Internal, on board patch antenna
Inputs & Outputs	CelloTrack LTE Standalone/Power	
	 Analog 0-2.5V Input Analog 0-30V Input Frequency Counter Input Output Discrete Dry – Ground sensing. Configurable grou 	nd threshold
	 Discrete Wet – Logic 1 and 0 configurable threshol Analog inputs with variable resolution: 8bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-2.5V: 3mV resolution, worst case accurate 12bit - 0-30V: 8mV resolution, worst case accurate Frequency counters – Up to 5kHz input signal; Signal 	olds / cy <10mV; max 20mV. cy <40mV
	 Analog inputs with variable resolution: 8bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-2.5V: 3mV resolution, worst case accurated to the second s	olds cy <10mV; max 20mV. cy <40mV level (3V < Vin \leq 30V); Accuracy \pm 2%
Interfaces COM port	 Analog inputs with variable resolution: 8bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-2.5V: 3mV resolution, worst case accurate 12bit - 0-30V: 8mV resolution, worst case accurate Frequency counters – Up to 5kHz input signal; Signal 	olds / cy <10mV; max 20mV. cy <40mV
	Analog inputs with variable resolution: 8bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-2.5V: 3mV resolution, worst case accurace 12bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade	olds / cy <10mV; max 20mV. cy <40mV level (3V < Vin ≤ 30V); Accuracy ±2% Cellocator Serial Protocol Debug, Configuration, FW upgrade USB 2.0, internal micro-USB connector
COM port	Analog inputs with variable resolution: 8bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-2.5V: 3mV resolution, worst case accurace 12bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution	olds / cy <10mV; max 20mV. cy <40mV level (3V < Vin ≤ 30V); Accuracy ±2% Cellocator Serial Protocol Debug, Configuration, FW upgrade USB 2.0, internal micro-USB connector 3D, ±8g range, 12 Bit representation, 4mg resolution
COM port 3D Accelerometer VIMI	Analog inputs with variable resolution: 8bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-2.5V: 3mV resolution, worst case accurace 12bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button	Indes Index
COM port 3D Accelerometer	Analog inputs with variable resolution: 8 bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8 bit - 0-30V: 100mV resolution, accuracy ±100mV 1 2bit - 0-2.5V: 3mV resolution, worst case accurace 1 2bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface	/ cy <10mV; max 20mV.
COM port BD Accelerometer VIMI Wireless Connectors	Analog inputs with variable resolution: 8 bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8 bit - 0-30V: 100mV resolution, accuracy ±100mV 1 2bit - 0-2.5V: 3mV resolution, worst case accurace 1 2bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface for MultiSense integration CelloTrack Standalone	/ cy <10mV; max 20mV.
COM port BD Accelerometer MMI Wireless Connectors Power	Analog inputs with variable resolution: 8 8bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8 8bit - 0-30V: 100mV resolution, accuracy ±100mV 1 12bit - 0-2.5V: 3mV resolution, worst case accurace 1 2bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface for MultiSense integration CelloTrack Standalone CelloTrack Power 6 pin Molex, Automotive Pigtail	/ cy <10mV; max 20mV.
COM port BD Accelerometer MMI Wireless Connectors Power nput voltage:	Analog inputs with variable resolution: 8bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-2.5V: 3mV resolution, worst case accurace 12bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface for MultiSense integration CelloTrack Standalone CelloTrack LTE Standalone/Power CelloTrack Standalone CelloTrack CLTE Standalone/Power CelloTrack Standalone CelloTrack Standalone CelloTrack Rower	/ cy <10mV; max 20mV.
COM port 3D Accelerometer MMI Wireless	Analog inputs with variable resolution: 8 bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8 bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-30V: 3mV resolution, worst case accurace 12bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface for MultiSense integration CelloTrack LTE Standalone 6 pin Molex, Automotive 6 pin Molex, Automotive CelloTrack Power CelloTrack Standalone CelloTrack Power CelloTrack Standalone 4.2V 1A CCCV Charger 9-32V DC	Adds / cy <10mV; max 20mV.
COM port BD Accelerometer MMI Wireless Connectors Power nput voltage: nternal Battery Environment	Analog inputs with variable resolution: 8 bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8 bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-2.5V: 3mV resolution, worst case accurace 12bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface for MultiSense integration CelloTrack Standalone 6 pin Molex, Automotive 7 pigtail CelloTrack Standalone CelloTrack Standalone CelloTrack Power 6 pin Molex, Automotive 9 -32V DC Li-Polymer, 3.7V, 5.3Ah, rechargeable	/ cy <10mV; max 20mV.
COM port BD Accelerometer MMI Wireless Connectors Power nput voltage: nternal Battery Environment Femp, operating	Analog inputs with variable resolution: 8 bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8 bit - 0-30V: 100mV resolution, accuracy ±100mV 1 2bit - 0-2.5V: 3mV resolution, worst case accurace 1 2bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface for MultiSense integration CelloTrack LTE Standalone/Power CelloTrack Standalone 6 pin Molex, Automotive 9 rigtail CelloTrack Standalone 4.2V 1A CCCV Charger 9-32V DC Li-Polymer, 3.7V, 5.3Ah, rechargeable CelloTrack LTE Standalone/Power Discharging: -30°C – 70°C	/ cy <10mV; max 20mV.
COM port 3D Accelerometer MMI Wireless Connectors Power nput voltage: nternal Battery	Analog inputs with variable resolution: 8 bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8 bit - 0-30V: 100mV resolution, accuracy ±100mV 1 2bit - 0-2.5V: 3mV resolution, worst case accurated 1 2bit - 0-30V: 8mV resolution, worst case accurated Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface for MultiSense integration CelloTrack Standalone 6 pin Molex, Automotive 9 Figtail CelloTrack Standalone 4.2V 1A CCCV Charger 9-32V DC Li-Polymer, 3.7V, 5.3Ah, rechargeable CelloTrack LTE Standalone/Power Discharging: -30°C – 70°C Charging: -20°C – 60°C	/ cy <10mV; max 20mV.
COM port COM	Analog inputs with variable resolution: 8 bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8 bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-30V: 8mV resolution, worst case accurace 12bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface for MultiSense integration CelloTrack Standalone CelloTrack Standalone CelloTrack CLTE Standalone/Power CelloTrack Standalone Activation / Distress Dutton CelloTrack LTE Standalone/Power CelloTrack Standalone CelloTrack Power 6 pin Molex, Automotive 9-32V DC Li-Polymer, 3.7V, 5.3Ah, rechargeable CelloTrack LTE Standalone/Power Discharging: -30°C – 70°C Charging: -20°C – 60°C -20°C – 60°C 95% non-condensing	Adds / cy <10mV; max 20mV.
COM port COM	Analog inputs with variable resolution: 8bit - 0-2.5V: 20mV resolution, accuracy ±30mV; 8bit - 0-30V: 100mV resolution, accuracy ±100mV 12bit - 0-30V: 3mV resolution, worst case accurace 12bit - 0-30V: 8mV resolution, worst case accurace Frequency counters – Up to 5kHz input signal; Signal Output - Open collector CelloTrack LTE Standalone/Power Cellocator Serial Protocol Debug, Configuration, FW upgrade RS232, CMOS levels 3D, ±8g range, 12 Bit representation, 4mg resolution Movement detection 2 dual colored LED status indication Activation / Distress button Tamper switch 2.4 GHz proprietary wireless interface for MultiSense integration CelloTrack Standalone 6 pin Molex, Automotive 7 Pigtail CelloTrack LTE Standalone/Power CelloTrack Standalone 4.2V 1A CCCV Charger 9-32V DC Li-Polymer, 3.7V, 5.3Ah, rechargeable CelloTrack LTE Standalone/Power Discharging: -30°C – 70°C Charging: -20°C – 60°C -20°C – 60°C	/ cy <10mV; max 20mV.

Regulatory Compliance / Certification	CelloTrack LTE Standalone/Power	CelloTrack 10Y
CE	CE Safety EN60950-1:2001+A11:2004	CE Safety EN60950-1:2001+A11:2004
FCC	Part 15 Subpart B, part 22/24 compliant	Part 15 Subpart B, part 22/24 compliant
IC	ICES-003, Issue 5:2012 Class B. CAN/CSA-CEI/IEC CISPR 22:10	ICES-003, Issue 5:2012 Class B. CAN/CSA-CEI/IEC CISPR 22:10
PTCRB	TRP, TIS, Spurious and harmonics emission	TRP, TIS, Spurious and harmonics emission
AT&T	Yes	Yes
Environment	ISO 16750 part 3 & 4	ISO 16750 part 3 & 4
UL	Compliant	Compliant
Reliability Assessment	Annual Failed Ratio <0.5%	Annual Failed Ratio <0.5%
HALT (Highly Accelerated Life Test)		Passed
RoHS and Conflict Minerals	Compliant	Compliant
Dimensions & Weight	CelloTrack LTE Standalone/Power	CelloTrack 10Y
Dimensions	~155mm x 81mm x 45mm	~ 203mm x 81mm x 50mm
Weight	CelloTrack Standalone ~ 330gr CelloTrack Power ~ 370gr	~ 510 gr
Enclosure Material	Polycarbonate	Polycarbonate

MultiSense Specifications

Communication		
Short range RF	2.4GHz wireless communication	
Power Output	8mW	
Power		
Average current consumption	Transmission pulse: Active connection with Nano (Avg): Hibernation (idle, light sensor disabled): Hibernation (idle, light sensor enabled): Powered off:	23mA <250uA <25uA <40uA <5uA
Internal Battery	3V Lithium coin battery CR2450 Protections: over current	
Sensors		
Temperature	MultiSense typical accuracy: 0°C to 85°C: ±0.5°C -25°C to 0°C: ±1.0°C -30°C to -25°C : ±2.0°C Resolution: 0.1°C	MultiSense TH typical accuracy: -10°C to 85°C: ±0.3°C -15°C to -10°C: ±0.4°C -25°C to -15°C: ±0.5°C -30°C to -25°C: ±0.6°C Resolution: 0.1°C
Accelerometer	3D, ±8g range, 4mg resolution Free fall detection with programmable threshold, Impact with threshold up to 8g	
Humidity (MultiSense-TH)	Typical accuracy 0%-80% ±3% RH, Resolution 0.1% RH	
Light	Effective range 1-512 lux	
Magnetic Logger	10-30mm range an optionally provided magnet. Used to detect open/closed door	
Internal storage Environment	Up to 3,000 samples	
	Regular Coin Battery	XT Coin Battery
Temp, operation	-10°C to +60°C	-30°C to +85°C
Temp, storage	-40°C to +85°C	-40°C to +85°C
Humidity	95% non-condensing	
Ingress Protection	IP67	
Shock, Vibration	Shock resistance according to EN 60068-2-27, vibration according to EN12830	
Mounting	2 screws or nylon tie-wraps and/or double-sided adhesive	
Certifications		
FCC	FCC regulation tests	
CE	CE (EMC, Safety, R&TTE)	
UL	UL regulation tests	

MultiSense Specifications (Continued)

Certifications		
IEC 60529 - IP67	IEC 60529 – IP67 regulation tests	
EN12830:1999 Temperature recorders for the transport, storage and distribution of chilled, frozen, dee food and ice cream. Tests performance and suitability. Response time t90: 10 minutes designation: T/D/1 MultiSense designation: -30°C to 40°C – T/D/1 40°C to 85°C – T/D/2		
EN 13485:2002	Thermometers for measuring the air and product temperature for the transport, storage and distribution of chilled, frozen, deep frozen/ quick-frozen food and ice cream - Tests, performance, suitability. MultiSense -TH designation: T/D/0.5 MultiSense designation: -30°C to 40°C – T/D/1 40°C to 85°C – T/D/2	
Environmental	Environmental regulation tests	
Dimensions & Weight		
Dimensions	58.5 x 46 x 15mm	
Weight	~19 gr (without battery)	

Battery Life				
TX / 24Hrs	CelloTrack 10Y 42.5 Ah Battery Life	CelloTrack LTE Standalone/Power 5.3 Ah Battery Life		
1	120 Months (10 Years)	20 Months		
2	90 Months (7+ Years)	15 Months		
4	62 Months (5+ Years)	10 Months		
6	48 Months (4 Years)	7 Months		
8	39 Months (3+ Years)	6 Months		
12	28 Months (2+ Years)	4 Months		
24	15 Months (1+ Years)	2 Months		
48	8 Months	1 Month		
96	4 Months	0.5 Month		

The battery life calculations are based on the following assumptions and setup:

Battery self-discharge rate for the CT LTE: 3% of available capacity per month at 25°C. Battery is fully charged optimally before first use. Operation mode: periodic peeking. Number of messages per day as specified in the table. Up to 2.5 minutes total on-time on peeking, with up to 1.3 minutes GPS on-time on peeking. Based on LTE Cat1 modern HW variant. Values may vary according to operational conditions. Values may vary according to environment and use.

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