

The Microtron Tracker

Real time insights in your business



Highlights

- The Microtron tracker solution offers the following capabilities:
 - Microtron tracker hub: temperature, barometric pressure, sound, tampering, impact, geo fencing, movement, light, man down.
 - MultiSense: temperature, humidity (MultiSense TH), magnetic (door/window status), impact/free fall, movement, light.
- SiRFstarV™ engine supporting Hybrid GNSS.
- Communicates with backend server via cellular communication (2G networks) for remote monitoring (OTA), configuration and firmware upgrades.
- Compliance with cold chain standards and regulations GDP for pharmaceuticals and EN12830 for transportation of perishable goods.
- A scalable solution utilizing a wireless sensor network.
- Configuration and upgrades via powerful software tools for firmware upgrades and configuration management. Cross-platform display.

Microtron Tracker Specifications

| 2G variant Cellular Communication | , |
|--|--|
| GSM Modes | Quad band GSM (2G - worldwide): GSM/GPRS: 42.8[UL]/85.6[DL] Kbps, 850/900/1800/1900MHz |
| Power Output | Up to 2W for 850/900 bands, and up to 1W for 1800/1900 bands |
| SIM | Internal, full size, replaceable, remote PIN code management, option for M2M type SIM chip |
| Antenna | Internal, On board (PCB) penta band GSM antenna |
| Packet Data | TCP/IP, UDP/IP |
| SMS | PDU mode |
| GPS | |
| Technology | CSR SiRFstarV™ engine supporting Hybrid GNSS |
| Sensitivity (tracking) | -165dBm |
| Acquisition (normal) | Cold <35Sec, Hot<1Sec, Warm <9 Sec |
| Internal Antenna | Internal, on board patch antenna |
| Wireless Sensor Network | |
| Short range RF | 2.4GHz wireless communication |
| Power | |
| Input Voltage | 5VDC ±5% |
| Average Current Consumption | Normal: 30mA |
| Average Current Consumption | Economic: <12mA |
| | Hibernation: <1mA |
| | Shipment (Off): <50uA |
| Internal Battery ^[2] | Li-Ion Polymer, 3.7V, 1300mAh, rechargeable |
| | Embedded NTC for temperature controlled charging |
| | Operating Temperature: -20 (65% charge) to 60°C Protections: Temperature, over current, overcharge and over discharge |
| | Frotections. Temperature, over current, overcharge and over discharge |
| Sensors | |
| Temperature | Typical accuracy ⁽³⁾ : |
| | 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 |
| Light | Effective range 1÷1023 lux |
| Environment | |
| Temp, operation | -20°C to +60°C full performance |
| Temp, storage | -40°C to +85°C |
| Humidity | 95% non-condensing |
| Ingress Protection | IP66 |
| B cons no so n | 200 May 2 M |
| Vibration, Impact | According to standard EN 12830 |
| Mounting without cradle | Double-sided adhesive |
| Mounting with cradle | 3 screws or two nylon tie-wraps and/or double-sided adhesive Optional strong magnetic cradle Optional belt clip adapter |
| Certifications | |
| FCC | Part 15 Subpart B, part 22/24 compliant |
| CE | CE EMC & R&TTE according to 89/336/EEC or 1999/5/ EC CE Safety EN60950-1:2001+A11:2004 |
| | • |
| IC | Industry Canada |
| PTCRB | TRP, TIS, Spurious and harmonics emission |
| UL | UL regulation tests |
| IEC 60529 - IP66 | IEC 60529 – IP66 regulation tests |
| AT&T | AT&T certified |
| EN12830:1999 | Temperature recorders for the transport, storage and distribution of chilled, |
| | frozen, deep-frozen/quick-frozen food and ice cream. Tests performance and suitability. Designation: -20 to +30°C – T/B/1 +30 to +60°C – T/B/2 |
| GDP | Good Distribution Practice (Europe, US) |
| SAR | According to IEC 62209-2, 2.5cm from the body |
| FAA | Comply with regulation instructions (14 CFR 91,21 and 121.306) |
| SECOND TO SECOND | Samply marrogalidate mondolions (17 of Not,21 dilu 121.000) |
| Dimensions and Weight | 00.2 50.4 22.7 |
| Dimensions | 86.2 x 59.1 x 22.7 mm |
| Weight | 96 gr |