

FiveTrack Primary GD4.



Product Highlights.

- Avoid complicated reverse logistics as device is disposable
- Incentivised recycling scheme
- Provides up to **90** days of in-transit tracking
- Damage detection
- WiFi, LTE-CatM & GSM communications
- NIST traceable temperature sensor
- Detects Tags for Humidity
- Can beacon
- Waterproof IP67.
- Supports multi-modal supply chain journeys
- Certified for use in over 25 countries and 45 airlines

How the system works:

The **FiveTrack** GD4 is a non-rechargeable battery-operated device designed for supply chain, asset tracking – On the Road, Rail, Air or Ocean as well as various under roof applications.

The **FiveTrack** GD4 provides location reporting as well as monitoring accurate temperature (NIST traceable) and light level. The **FiveTrack** Primary GD4 will regularly report its location, upload sensor data and is capable of being remotely controlled for shut off commands. Configureable for many different use cases, the device by default will report while moving at 5-minute intervals and 10 hour during stationary, the **FiveTrack** Primary GD4 will operate for 90 days or even more.

Installation and asset association.

The **FiveTrack** Primary GD4 is pre-configured with default settings. All that is needed is to turn on the device and associate the device with the asset or shipment to which it is attached. To simplify this association process, each **FiveTrack** Primary GD4 has a unique identifier that is presented as a number and a barcode on its label. Association is completed by scanning this barcode and entering details regarding the asset or shipment. This can be completed directly on a browser or using our APP. Once associated, **FiveTrack** allows the user to edit shipment reference and add photos.

Design considerations.

The system has been developed with end to end security in mind and protection against replay and masquerade attacks. Each **FiveTrack** GD4 has a unique key programmed at manufacture and all communication is authenticated and restricted to **FiveTrack** servers. Communication can be completed over cellular or via pre-configured WiFi access points.

The device is designed to be disposable, **FiveTrack** offers an incentive based recycling scheme that can help reduce the system chain costs significantly and reduces the supply chain's carbon footprint.

Applications include.

Suitable for tracking supply chain shipments across multiple industries where location and sensor monitoring is required. Multi-modal shipments are supported, the device is particularly suited to journeys where reverse logistics for the device are either impossible or difficult.

Technical Specifications.

Remote Communication

Worldwide LTE Cat M1 (1, 2, 3, 4, 5, 8, 20, 28)/EGPRS (850, 900, 1800, 1900MHz), WiFi 802.11b/g/n via Espressif ESP8266

Positioning

Hybrid Positioning Engine, with locations from A-GPS, visible cell towers and WiFi access points

Tag Reporting

Range	20m (65.6ft) indoors
	80m (262ft) outdoors
Number of tags	Up to 1,000 tags per GD4
Reporting level	Configurable

Power Consumption

Sleep	0.015mA average
Reporting	125mA average

Battery

4 x Maxell LR6 Alkaline AA providing 90 days of battery life when reporting at	10 hr (stationary);
	5 mins (when in motion)
	15 min temperature logging
	10 sec temperature monitoring (Considering 8hrs of motion per day)

Mechanical Charecteristics

Dimensions (LxWxH)	141.2 x 49.2 x 24.1mm
	5.5 x 1.9 x 0.95in
Weight	160g (5.6oz)
Material	PC+ABS
Colour	White

Environmental

IP rating	67
Storage temperature	5 to 30°C (41 to 86°F)
Operating temperature	-20 to 54°C (-41 to 29°F)



Device top with ID and power button/LED indicator



Device base with QR Code

Sensors

Temperature	<1°C (2°F) accuracy between -20 to 54°C (4 to 129°F)
	NIST traceable
Accelorometer	Motion detection
Pressure sensor	Flight mode
Light sensor	Package open/close

Certifications

Countries	FCC, IC, MIC, NOM, ANATEL, UKCA, CE, ROHS, SUBTEL, NCC, OFCA, NBTC, KC, WPC, RCM, RAMATEL, MoC, CRC, CITRA, ASEP, CRA, CST, ICASA, URSEC
	RU, AC, CA, UX, AF, NZ, AS, NH, AA, M6, OZ, 50, 5Y, OS, AV, SN, 5C, CV, C8, CX, CI, DL, EK, EY, BR, HX, QX, KL, KE, LA, M3, LK, MH, KZ, PT, PO, QR, SQ, OO, WN, SG, LX, TP, TK, UA
Airlines	