FRIOLINK™

DATASHEET

TOPFLYtech KnightX 100

TOPFLYtech · LTE Cat 1 gateway with Bluetooth hub

Status with Friolink: Lab-tested

For trucks, containers and sites without fixed internet. It collects the Bluetooth sensors in the box (T-one, T-sense) and uploads them over the cellular network, with GPS location.

Specifications

Cellular network	LTE Cat 1 FDD (B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66) and TDD (B34/38/39/40/41) · GSM 850/900/1800/1900 fallback [1]
Positioning	GPS, Glonass, Beidou, Galileo and QZSS · under 1.5 m CEP [1]
Bluetooth hub	Bluetooth LE 5.1 for sensors [1]
Battery	Rechargeable Li-ion 6400 mAh · 3.7 V · USB-C [1]
Battery life	About 134 days reporting every 10 min · about 71 days every 1 min (manufacturer) [1]
Data transport	TCP · UDP · MQTT · SMS · AES [1]
Protection	IP67 [1]
Operating temperature	−20 a 80 °C [1]
Dimensions	91,8 × 43,5 × 29,2 mm [1]
Weight	165 g [1]
Certifications (manufacturer)	CE · FCC · RCM · Anatel · NBTC · CITC · TDRA [1]
Connection to Friolink	Connects to Friolink through its own service; connected sensors, battery and location on the gateway record [2]

With Friolink

- Per-trip report: origin, destination, minimums, maximums, time out of range and alarms
- Asset location on a map, on the record
- Grouped alert if the gateway stops reporting

> Certifications are those declared by TOPFLYtech. Approval of the cellular device in each country is a separate process, handled before each sale.

Sources

[1] TOPFLYtech, product page: https://www.topflytech.com/en/knightx-100-4g-cat-1/

[2] Friolink technical documentation: Sistemas Gateway LTE (GATEWAY-SISTEMAS-LTE.md)

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