









# TEKTELIC FINCH

## LoRaWAN® and BLE Indoor Panic Button Tracker

TEKTELIC's FINCH is a compact and reliable mobile BLE panic button designed for use in a wide range of environments where personal safety solutions are required. It enables personnel to quickly trigger an alert from any location, generating an event-based BLE location report that is sent to designated support staff or security teams. When activated, the FINCH increases its reporting frequency to provide more frequent location updates, supporting timely response and improved situational awareness during an emergency.



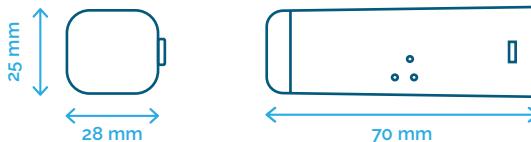
### Sensing Measurements

 <b>ACCELEROMETER</b>	 <b>PANIC BUTTON</b>	 <b>BUZZER AND VIBRATION MOTOR</b>	 <b>BLE TRANSCEIVER</b>
 <b>TRACKER MODE</b>	 <b>BEACON MODE</b> <small>(100 MS ADVERTISING INTERVAL)</small>	 <b>AMBIENT MCU TEMPERATURE</b>	 <b>BATTERY LIFE INDICATOR</b>

### Features

- ✓ **5+ year battery life\*** in Tracker Mode and **16+ months battery life\*** in Beacon Mode
- ✓ **Dual-mode BLE operation** enabling **Tracker Mode** for scanning nearby devices and **Beacon Mode** for broadcasting presence
- ✓ **Adaptive state-machine reporting** with high-frequency updates during panic/emergency and low-frequency updates during normal operation
- ✓ **Belt-clip attachment** for secure, hands-free wearing and easy access during daily movement
- ✓ **User-configurable parameters and thresholds** allow the device to be tailored to a wide range of monitoring applications
- ✓ **Compatible with standard LoRaWAN® gateways and network servers** for broad interoperability
- ✓ **TEKTELIC Kona Atlas™ support** for payload encoding and decoding
- ✓ **TEKTELIC Locus™ integration** for centralized device, data, and fleet management
- ✓ **Quick and easy device onboarding & data viewing** using TEKTELIC LeapX™ mobile application
- ✓ **Rapid deployment** for scalable commercial and enterprise installations
- ✓ **Remaining battery life reported** in days

\* Actual battery life varies based on configuration, data rate, and operating temperature.



**Technical and Functional System Specifications**

**General System Parameters**

Operational Temperature	-20°C to 70°C
Storage Temperature	-40°C to 50°C
Operational Relative Humidity	5% - 95% Non-Condensing
Ingress Protection	IP30
Size	70 x 25 x 28 mm (without clip)
Weight	28.3 (enclosure) + 17.5 g (battery) - 45.8 g total
Battery	1 x AA LTC

**Battery Life**

Reporting Period* - 60 min @SF7 (Tracker)	5 Years
Reporting Period* - 60 min @SF10 (Tracker)	3 Years
Reporting Period - 24 hrs @ SF10 (Beacon)	16 Months

**Wireless Parameters**

	LoRa	BLE
RF Power (Max)	15 dBm	0 dBm
RF Sensitivity	-137 dBm (SF12, 125 kHz)	125 kbps: -103 dBm 500 kbps: -98 dBm 2 Mbps: -91 dBm
Channel Plans	EU868, US915, AU915, AS923-1,-2,-3,-4, IN865, KR920	2.4 GHz ISM
Antenna	Internal	Internal
LoRa Device Class	Class A	N/A
Specification Version	1.0.4	5.2

**Sensor Specifications**

Accelerometer Sensitivity	Sample rate: 1, 10, 25, 50, 100, 200, 400 Hz Measurement range: +/-2, +/-4, +/-8, +/-16 g Precision: 16, 32, 64, 192 mg
BLE Protocols	iBeacon, Eddystone UID, Eddystone TLM
Default BLE Advertising Interval	100 ms

**Certifications & Compliance**

Regulatory	FCC, ISED, CE (RED)
Product Safety	IEC 62368-1
Environmental	RoHS

\*Default reporting behavior is 1 location update every 60 minutes in normal state and every 1 minute in emergency state

TEKTELIC Communications is a premier supplier of complete LoRaWAN® IoT solutions. Our end-to-end systems combine network infrastructure, devices, and applications to enable easy, fast, and cost-effective deployment for the most demanding IoT challenges.