TEKTELIC STORK

Energy-Efficient LoRaWAN® Asset Tracker with Low-Power GNSS, BLE & Wi-Fi

The **TEKTELIC STORK** is a rugged, long-life **LoRaWAN® asset tracker** designed for reliable tracking of mobile assets across indoor and outdoor environments. Utilizing low-power positioning technologies, including low-power **GNSS for outdoor tracking** and **BLE and Wi-Fi scanning for indoor location awareness**, STORK delivers accurate and timely asset visibility. With a compact IP67-rated enclosure, extended battery life, and optional external power support, STORK enables scalable, cost-effective tracking of vehicles, equipment, and high-value assets in industrial and enterprise deployments.



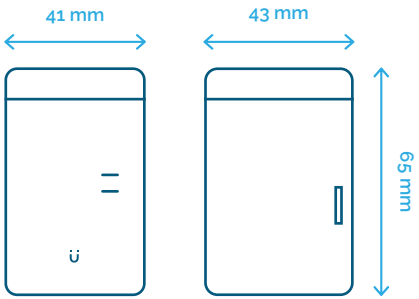
IP 67

Sensing Functions

- LOW-POWER GNSS RECEIVER
- WI-FI RECEIVER
- BLUETOOTH LOW-ENERGY (BLE) TRANSCEIVER
- ACCELEROMETER
- AMBIENT TEMPERATURE (MCU THERMOMETER)
- HYGROMETER
- MAGNETIC HALL-EFFECT SENSOR
- BATTERY VOLTAGE GAUGE

Features

- **5+ years battery life*** enabled by an optimized low-power design for long-term, maintenance-free operation
- **Optional 12V external power** support for fixed installations or extended runtime
- **Low-power GNSS** positioning for outdoor asset tracking
- **BLE and Wi-Fi** scanning for indoor location awareness
- **LoRa Edge™-enabled positioning** for efficient geolocation with reduced power consumption
- **Bluetooth® Low Energy (BLE)** functionality supporting proximity-based applications
- **Built-in accelerometer** for motion detection and activity-based events
- **Compact form factor with versatile mounting options** for diverse asset types
- **Compatible with standard LoRaWAN® gateways and network servers** for broad interoperability
- **Quick and easy device onboarding & data viewing** using TEKTELIC **LeapX™** mobile application
- TEKTELIC **Kona Atlas™ support** for payload encoding and decoding
- **Locus™ integration** for centralized device, data, and fleet management
- **Rapid deployment** for scalable industrial and enterprise asset-tracking solutions



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

Technical and Functional System Specifications

General System Parameters		
Operational Temperature	-40°C to 70°C	
Storage Temperature	-25° to 55°C	
Operational Relative Humidity	5% - 95% Non-Condensing	
Ingress Protection	IP67	
Size	65 x 45 x 41 mm (with bracket)	
	65 x 43 x 41 mm (without bracket)	
Weight (without bracket))	120 g (63.5 g enclosure + 56.5 g battery)	
Battery	1 x C-Cell LTC	
External power source	9 to 16 V DC, 100mA Supply (external power variants only)	
Battery Life		
Default Reporting Period* @SF7	5 Years	
Default Reporting Period* @SF10	4.5 Years	
Wireless Parameters (LoRa)	**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	2.4GHz ISM
Antenna	Internal	Internal
LoRa Device Class	Class A	N/A
Specification Version	1.0.4	5.2
Sensor Specifications		
GNSS Features	2.5 m position accuracy** (CEP 50)	
	GPS L1 + GPS geostationary SBAS: EGNOS and WAAS	
	BeiDou B1 + BeiDou geostationary GEO/IGSO	
Wi-Fi Compatibility 802.11b/g/n	802.11b/g/n	
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	
Certifications & Compliance		
Regulatory	FCC, ISED, CE (RED)	
Product Safety	IEC 62368-1	
Environmental	RoHS	

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.

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