

# ORCA Industrial GPS Asset Tracker

## LoRaWAN® connected GPS Tracker for Industrial Asset Management

TEKTELIC ORCA is an ideal solution for geolocating your assets in the field. This device provides GPS enabled near real-time satellite location tracking with LoRaWAN®.

- Shipping containers
- Pallets
- Railcars
- Industrial Transport
- Fleet Vehicles
- Industrial Equipment
- Preventative Maintenance
- Security & Theft Mitigation



### Technical and Functional System Specifications

#### General System Parameters

Operational Temperature	-40°C to +85°C
Protection Rating	IP67
Size	195 x 101 x 50 mm
Battery	2 D-Cell Batteries

#### LoRa Parameters

RF Power	22 dBm
RF Sensitivity	-137dBm (SF12, 125kHz)
ISM Band	All Global ISM Bands
Antenna	Internal
LoRa Device Class	Class A and C

#### Regulatory Compliance

Safety	IEC 60950-1 (CE)	
Regulatory	ETSI EN 300 220	
	ETSI EN 301-489-1/-3	
	FCC 15.247	FCC 15.209
	RSS-247	RSS-GEN

### Key Features

- » 5 Year Battery Life
- » Precise GPS
- » Data Transmission via LoRaWAN™
- » BLE (Optional)
- » All Global ISM bands
- » Rugged IP67 Design
- » Accelerometer
- » Internal Antenna
- » Battery Status Indicator



# SPARROW Enterprise Asset Tracker

## LoRaWAN® and BLE Device for Indoor Asset Tracking

TEKTELIC SPARROW is an ideal solution for locating, tracking and managing assets. This device combines the long range, low power benefits of LoRaWAN® with the universal availability and reliability of Bluetooth Low Energy (BLE).

- Hospitals & Medical Facilities
- Retail
- Office Buildings
- Warehouses
- Manufacturing Facilities
- Museums & Libraries
- Multi-Building Campuses
- Schools



### Technical and Functional System Specifications

#### General System Parameters

Operational Temperature	0°C to +60°C
Ingress Protection	IP30
Size	65 x 24.5 x 26 mm
Battery	AA LTC

#### LoRa Parameters

RF Power	15 dBm
RF Sensitivity	up to -137dBm (SF12, 125kHz)
ISM Band	All Global ISM Bands
Antenna	Internal
LoRa Device Class	Class A

#### Regulatory Compliance

Safety	IEC 60950-1 (CE)	
Regulatory	ETSI EN 300 220	
	ETSI EN 301-489-1/-3	
	FCC 15.247	FCC 15.209
	RSS-247	RSS-GEN

Specifications subject to change without notice.

### Key Features

- » 10 Year Battery Life
- » Accelerometer
- » Bluetooth Low Energy Functionality
- » Data Transmission via LoRaWAN™ and BLE
- » All Global ISM Bands
- » Small Form Factor for Diverse Deployments
- » Easily Integrated into LoRaWAN™ Networks
- » Internal Antenna

# PELICAN Outdoor Enterprise Asset Tracker

## LoRaWAN® and BLE Device for Outdoor Asset Tracking

TEKTELIC PELICAN is an ideal solution for locating, tracking and managing assets in difficult RF environments such as manufacturing, shipping and rail yards and equipment storage facilities. This device combines the long range, low power benefits of LoRaWAN® with the universal availability and reliability of Bluetooth Low Energy (BLE).



### Technical and Functional System Specifications

#### General System Parameters

Operational Temperature	-40°C to +85°C
Ingress Protection	IP67
Size	67 x 41 x 32 mm
Battery	C-Cell

#### Regulatory Compliance

Safety	IEC 60950-1 (CE)	
Regulatory	ETSI EN 300 220	
	ETSI EN 301-489-1/-3	
	FCC 15.247	FCC 15.209
	RSS-247	RSS-GEN

Specifications subject to change without notice.

#### LoRa Parameters

RF Power	15 dBm
RF Sensitivity	up to -137dBm (SF12, 125kHz)
ISM Band	All Global ISM Bands
Antenna	Internal
LoRa Device Class	Class A

### Key Features

- » 8 Year Battery Life
- » Accelerometer
- » Bluetooth Low Energy Functionality
- » Data Transmission via LoRaWAN™ and BLE
- » All Global ISM Bands
- » Small Form Factor for Diverse Deployments
- » Easily Integrated into LoRaWAN™ Networks
- » Internal Antenna

#### BLE Beacon Parameters

Tx Power	X
Battery life	X
BLE Protocols	X

# PELICAN Ex Asset Tracker

## LoRaWAN® and BLE Device for Outdoor Asset Tracking

TEKTELIC PELICAN Ex is an ideal solution for locating, tracking and managing assets in difficult RF environments such as manufacturing, shipping and rail yards and equipment storage facilities. The device combines the long range, low power benefits of LoRaWAN® with the universal availability and reliability of Bluetooth Low Energy (BLE). Rated IP67 and ATEX/ Zone 2 certified, the sensor is designed for the most demanding installations where combustible gasses, vapours or dusts may be present.



### Technical and Functional System Specifications

#### General System Parameters

Operational Temperature	-20°C to +50°C
Ingress Protection	IP67
Size	67 x 41 x 32 mm
Battery	C-Cell

#### Regulatory Compliance

Safety	EN 62368-1-2014 (CE)
Regulatory	ETSI EN 300 220
	ETSI EN 301-489-1/-3
ATEX Specification	EN 60079-0-2013
	EN 60079-11-2012
ATEX Marking	<Ex> II 2G Ex ia IIC T4 Gb
	<Ex> II 2D Ex ia IIIC T125° Db IP67

Specifications are in progress and subject to change\*

#### LoRa Parameters

RF Power	15 dBm
RF Sensitivity	up to -137dBm (SF12, 125kHz)
ISM Band	All Global ISM Bands
Antenna	Internal
LoRa Device Class	Class A

### Key Features

- » ATEX/Zone II Certified
- » 1 Year Battery Life
- » Accelerometer
- » Data Transmission via LoRaWAN® and BLE
- » Internal Antennas
- » All Global ISM Bands
- » Small Form Factor for Diverse Deployments
- » Bluetooth Low Energy Functionality
- » Easily Integrated into LoRaWAN™ Networks

#### BLE Beacon Parameters

Tx Power	Up to 0 dBm
Battery life	3 Years
BLE Protocols	iBeacon, Eddystone UID, Eddystone TLM