

# Inpixon Personnel Tag



## Durable and Wearable Tag for Proximity, Blue Dot and Activity Monitoring

The Inpixon Personnel Tag enables distance, activity, sensor and location tracking in large scaling RTLS environments with centimeter-level accuracy.

Featuring integrated wireless charging, this lightweight UWB tag provides accurate location data and is designed for individual use to support an array of location related use cases.

System Integrators benefit from the white label housing and the inclusive API, known for its ease of use - to design tracking and sensing applications.

The Inpixon Personnel Tag is compatible with the nanotron infrastructure which seamlessly can switch between proximity, tracking and data communication.



59.75 x 33.5 x 15 mm

## Personnel Tag Highlights

- **UWB technology** for pinpoint cm-level accuracy
- **Battery Life**
  - 16 hours, full working day at stated blink interval
  - Configurable from 1 to 60 days depending on blink interval
- **Blink on motion**
  - **Stationary:** 5 min RTLS standard blink
  - **Motion:** 0.5 s RTLS standard blink
  - **Configurable blink interval:** 100 ms to 24 hours
- **Durable:** IP65 housing resists dirt and shocks, drop resistant
- **Make it Yours:** White label housing
- **Intelligent Wireless Energy Harvester:**
  - Qi charging support
  - Tag is "ON if grabbed"
- **Scalability:** Expand deployments to thousands of concurrent tag tracking
- **Sensor data:** Transmits battery status, temperature, location and 3D-acceleration data
- **Configure Over-The-Air:** Add features via FOTA, configure wirelessly with minimal maintenance efforts
- **Tracking:** Works with nanotron's trusted location engine, deployed worldwide for 10+ years
- **Pre-deployment flight safe:** Flight safe until activated via Qi-Charger

# Inpixon Personnel Tag



## Specifications

Key Frequencies Band	Channel 5, 6489.6 MHz, BW 499.2 MHz
Radio Data Rates	6.8 Mbps
Transmit Power Density	< -41.3 dBm / MHz <sup>1</sup>
RF Sensitivity	-93 dBm typ. <sup>1</sup>
Antenna	Integrated
Accuracy	ca. 30 cm
Operational Range	ca. 40 m <sup>2</sup>
RTLS Static Blink Interval	configurable, 5 minutes default <sup>3</sup>
RTLS Motion Blink Interval	configurable, 0.5 seconds default <sup>3</sup>
Tri-Axial Accelerometer	± 2 g/ ± 4 g/ ± 8 g/ ± 16 g configurable, 4 g default
Accelerometer Resolution	12 bit
Temperature Measurement Range	-30 °C to +70 °C (1 °C steps)
Temperature Measurement Accuracy	± 0.5 °C
Power Input / Battery Charging	Wireless Qi Charging <sup>4</sup>
Battery Charging Temperature	0° C to +35° C <sup>5</sup>
Charging Duration	ca. 2 to 5 hours depending on remaining capacity and temperature
Battery Life Default Settings	ca. 16 hours <sup>6</sup>
Battery Life Individual	1 to 60 days depending on blink interval
Dimensions	59.75 mm × 33.50 mm × 15.00 mm
Weight	ca. 30 grams
Operating Temperature Range	-20 °C to +60 °C
IP Rating	IP65 <sup>7</sup>
Software Compatibility	Inpixon nanoLES Location Engine
Location Protocols	Dedicated Nanotron API commands
Configuration	Over the air
Flashing (FW update)	Over the air

<sup>1</sup> Ch 5, PRF 16 MHz, Preamble 256 bits

<sup>2</sup> Real World Line of sight

<sup>3</sup> 100 ms to max. 24 hours configurable

<sup>4</sup> Contact your sales representative for recommendations for Qi chargers

<sup>5</sup> Risk of damage if temperature is exceeded

<sup>6</sup> Default Setting: 5m blink interval if stationary and 0.5s blink interval if moving. Assumption: asset is 90% stationary and 10% moving

<sup>7</sup> IP rating expires if device is opened

## Features

- **Sends location blink, temperature, battery and 3D-acceleration data**
- **Increases blinks on motion detection**
- **Small form factor:** 59.75 x 33.5 x 15 mm
- **Lightweight:** 30 grams

## Ordering information

Order No.	Description
PN01PSUTG	Inpixon Personnel Tag is an IP65 Tag for tracking of personnel

## Sales Inquiries

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