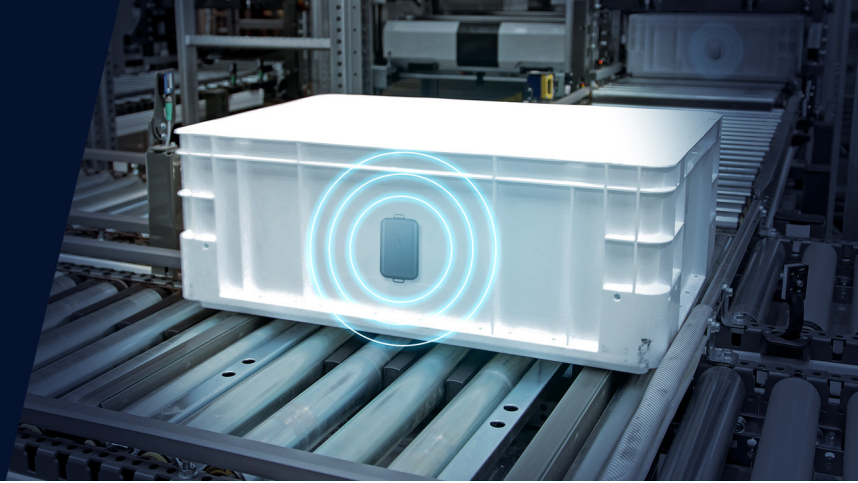# Inpixon Asset Tag
Chirp RF Location Tracking Tag

Long-Range Asset Tracking Tag for Large-Scale RTLS Deployments

The Inpixon Asset Tag is a chirp RF tag that enables accurate, real-time location tracking of high value assets over a long range of up to 300 meters. Affixed to mobile assets, the Inpixon Asset Tag works with our open and versatile RTLS components to deliver real-time distance, activity, sensor and location tracking to help organizations build highly scalable and efficient IoT-enabled solutions while reducing time-to-market and cost.

The small, durable transceiver tag features a deployment ready design that allows you to easily set up, activate and manage deployments that can scale across thousands of tracked assets.
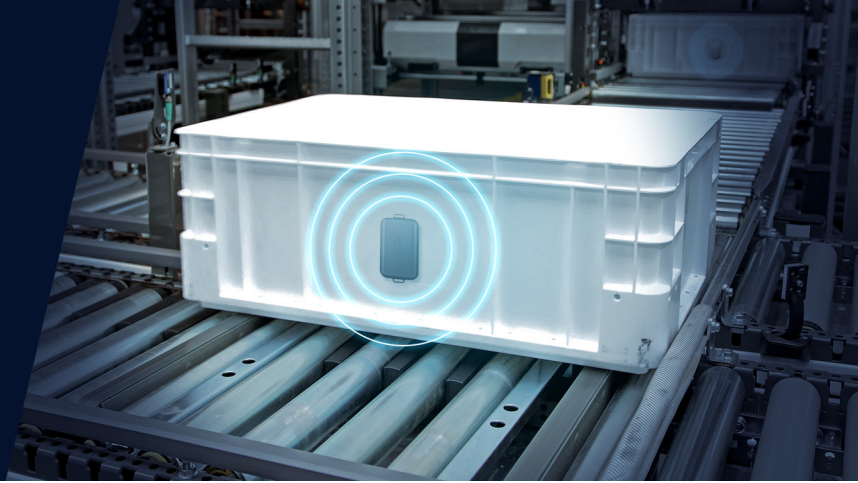

Dimensions: 88 x 48 x 26 mm

Inpixon Asset Tag Highlights:

- 2.4 GHz chirp technology

- Up to 300m range with high 1m location accuracy

- CSMA support to mitigate RF interference

- Efficient ToA RF-packets support large RTLS deployment scalability

- Location tracking across indoor and outdoor environments

- Long-lasting 5+ year battery life (default setting)

- Motion dependant blink technology

  - Motion detection triggers: 10s blink interval
  - Stationary detection triggers: 1h blink interval

- Rugged IP65 housing protects against dirt and damage in high-impact factories

- Scalability to support deployments across thousands of concurrently tracked assets

- Wireless configuration over-the-air to ease post-deployment changes

- Transmitted Data: Location blink, battery voltage, 3D acceleration and temperature data

- Flight Safe: Inactive and flight safe battery until simple one-time button activation

- Compatible Software: nanoLES location engine, deployed worldwide for 10+ years

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Specifications

Typical Range	Up to 300 m *1
Typical Location Accuracy	1m *2
RF Technology	Chirp
RF Output Power	Up to +20 dBm
Frequency Range	ISM-band 2.4 GHz (2.4~2.4835)
Blink Interval While in Motion	10 s default (100 ms - 2.3 h) *3
Blink Interval Stationary	1 h default (1 s - 24 h) *3
Fallback Time from Motion to Stationary	60 s (100 ms - 2.3 h) *3
Acceleration Range	±4 g
Temperature Resolution	1°C
Battery	Alkaline Primary Cell
Lifetime (default settings)	ca. 5+ years at ambient temperature*4
Flight Safe Before Activation	TX/RX disabled
Configuration	Over the air
Antenna	Internal
Operating Temperature Range	-20 °C to +60 °C
International Protection Class	IP65
Dimensions	88.00 x 48.00 x 26.00 mm
Weight	ca. 78 grams
CE-RED, FCC and ISED (IC Canada) Compliant	In Progress
ACMA (Australia)	Upon Request
Software Compatibility	Inpixon nanoLES Location Engine
Location Protocols	Blink Protocol

*1 LOS conditions. Results vary depending on environment
*2 90%, 1-hour static, 10m distance, RSSI -65 dBm
*3 Configurable
*4 lasts 5+ years with the default settings. Default Setting: 1h blink interval if stationary and 10s blink interval if moving. Assumption: asset is 90% stationary and 10% moving.

Ordering information

Order No.	Description
PN01ASSTG	Inpixon Asset Tag IP65 tag for tracking of assets in e.g. warehouses or factories using Chirp RF technology
BN03ANQCS	Inpixon nanoANQ Chirp PCB PCB anchor board for RTLS using Chirp RF, including nanoLES license
BN03SWBLP	swarm bee LE V3 DK + Development Kit incl. antenna
SNLES03	nanoLES 3 Location Engine
KN01TB3	RTLS Tools

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About nanotron, An Inpixon Company
Nanotron Technologies GmbH, an Inpixon company (Nasdaq: INPX) is a leading provider of electronic location awareness solutions. If knowing what, where and when is mission-critical to your business, rely on Nanotron with Location Running.

Nanotron's solutions deliver precise position data augmented by context information in real-time. Location Running means, reliably offering improved safety and increased productivity, 24 hours a day, 7 days per week: Location-Awareness for the Internet of Things (IoT).

Subject to change without notice.

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