



THE KINEXON X-TAG

Cost efficient and precise real-time localization & motion sensing.

The KINEXON X-Tag is the perfect sensor for indoor localization in industrial and logistics environments.

By mounting or embedding the tag on the object, it enables a precise and robust localization of all assets on the shop floor. Thus, the KINEXON X-Tag provides the basis for track & trace of your objects, workflow monitoring and process automation.

Due to its small size, low weight, robustness, long battery life and the very low price it meets all requirements for an area wide use in the industrial environment.

The KINEXON X-Tag works best with the KINEXON Real-Time Internet of Things platform (RIoT), the open IoT platform for real-time localization and analysis.

USE CASES

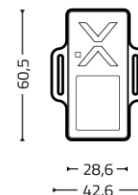
Track & Trace and optimized material handling of moving assets in industrial environments such as:

- Material & Goods
- Load Carrier (Barred box, pallet etc.)
- Manufactured products

Real-time location data is the enabler for improved process reliability and efficiency through process automation and optimization such as:

- Storage Automation
- Elimination of manual scanning
- Full transparency over material flow (cycle times, idle times etc.)
- Process Monitoring
- Process Mining

DIMENSIONS [mm]



KEYFACTS

RF SPECIFICATIONS

Positioning Principle	Real Time Location System (RTLS), Radio-based, Ultra-wideband (UWB)
Frequency range	UWB (IEEE 802.15.4): 6.25 - 6.75 GHz
Positioning Update Rate	Configurable, typically 1 Hz in motion, 0.1 Hz in standstill
Positioning Data	3D (x, y, z)
Positioning Accuracy	< 20 cm (depending on environment), MAE

PHYSICAL SPECIFICATIONS

Indicators	Status LED
Accelerometer	3-axis, +/-2 g to +/-16 g, up to 200 Hz
Battery	Internal non-replaceable Li primary battery
Battery Lifetime	Up to 5 years (depending on update rate)
Material	Luran 358N Styrene Acrylonitrile (SAN)
Weight	~35 g
Dimensions	60,5 x 42,6 x 12 mm
Mounting options	M3 screws, velcro, zip tie, double side tape

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20 °C to +60 °C incl. battery
Storage Temperature	-20 °C to +30 °C incl. battery
Protection Class	IP67
Regulatory Compliance	US: FCC Part 15 subpart C 15.250 (for indoor and outdoor use) European Union: ETSI EN 302065-1 (HF) ETSI EN 303883 (HF) ETSI TS 103361 (HF) Draft EN 301 489 - 1, -33 (EMC) EN 61000-4-2, -4-3, (EMC) EN 62479 (Human Exposure) 1999/519/EC (Human Exposure) ISED RSS-210 IEC/EN 62368-1