



THE KINEXON RTLS PRO X-TAG V2

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

The KINEXON RTLS PRO 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 RTLS PRO 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 RTLS PRO X-Tag works best with the KINEXON Real-Time Internet of Things platform (KINEXON OS), 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 Accuracy	< 20 cm (depending on environment), MAE

PHYSICAL SPECIFICATIONS

Accelerometer	3-axis, +/-2 g to +/-16 g, up to 200 Hz
Battery	Internal replaceable Li primary battery
Battery Lifetime	3 – 4 years (depending on update rate)
Material (top cover)	Luran 358N Styrene Acrylonitrile (SAN)
Material (base plate)	Ultramid A3UG5 PA66-GF25
Weight	~35 g
Dimensions	82 x 46 x 12 mm
Mounting options	M4 screws with holder, 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	IP65
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