

INDOOR LOCALIZATION SYSTEM FOR HARSH ENVIRONMENT

Features

- Accurate indoor localization
- Location accuracy up to 10 cm
- Autonomy adjusted to the application
- Real-time management
- 3D tracking
- Operates in harsh environment
- Customizable for optimization

Applications

- Localization of equipment or production follow-up
- Dynamic factory flow management:
 - Products localization
 - Advancement state
 - Validation of the key stages of production
- Stocks localization
- Navigation to target product
- Location of staff or animals
- Trajectory & customer tracking

WHERE RU

Definitions

ANCHOR

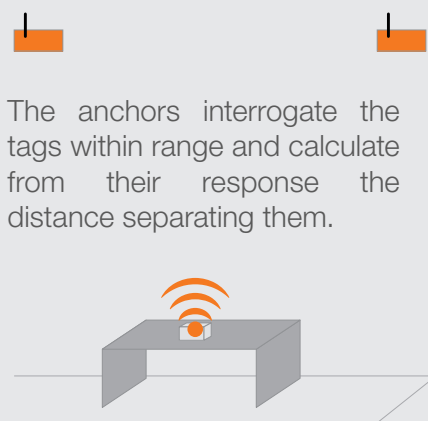


This is a fixed beacon positioned in the geolocation zone. Several anchors are needed to mesh this area.

TAG



It is a mobile beacon placed on the object to be geolocated.



The anchors compile this information and send it to a remote exchange (gateway) which allows the tags to be located on a map of the area. Additional information may be provided.

Operating principle

The location can then be consulted on a remote station (PC, tablet, smartphone..).



Specifications

SYSTEM PERFORMANCES

Accuracy	Up to 10 cm
Tracking	Axes x,y and z
Number of supported tags	65 000
Number of anchors	Definition according to the application and the area to be covered
Closed range	20 meters
Tag autonomy	From a few days to several years, depending on the use
Anchor autonomy	Power supply (batteries possible)

SYSTEM TRANSMISSION

Trilateration	UWB
Anchor / Gateway network	Wifi or Ethernet / 868 MHz
Dissemination to users	Wifi or Ethernet

SYSTEM CERTIFICATION

Marking	CE / UL / FCC
Environmental	RoHs / Reach

SYSTEM SUPPLY

	GATEWAY	ANCHORS	TAGS
Source	Power supply cord (provided)	Power supply unit (provided) or POE (Power Over Ethernet)	Power supply cord (provided)
Connexion	Ethernet RJ45 connector or Wifi	Ethernet RJ45 connector or Wifi	USB
Cable	RJ45 (not provided)	RJ45 (not provided)	USB (provided)

MECHANICAL DATA

TAGS	Min	Typ	Max
Operating temperature (°C)	0		60
Humidity (%)	0		100
Waterproofing	IP6X if needed		

	L	W	H
Dimensions (mm)	80	60	20
Weight (g)	100		

ANCHORS	Min	Typ	Max
Operating temperature (°C)	0		60
Humidity (%)	0		100
Waterproofing	IP6X if needed		

	L	W	H
Dimensions (mm)	125	125	45
Weight (g)	500		

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