

IIDRE^{UWB} Geolocation solutions



Hardware & Software manufacturer

Use case: social distancing badge

- ✓ Easy to use
- ✓ Alert generation when the tags are too close: buzzer, led or vibration (customisable distance from 20cm to 2m)
- ✓ No infrastructure required
- ✓ Anonymous badge
- ✓ Charge with USB-C
- ✓ BLE (Bluetooth Low Energy) capability in option

Gateway in option for data monitoring



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Tracking (TWR)



- ✓ **Easy deployment** (no synchronization between tags and anchors)
- ✓ **Range: 150 m**
- ✓ **Accuracy: 10 to 30 cm** (depending on the environment)
- ✓ **Tags density: up to 10 tags simultaneously**
- ✓ **Data rate: 100Hz**
- ✓ **Autonomy: 1 week**
- ✓ **Tailored solution: additional sensors (GNSS, barometer, air quality, etc.)**
- ✓ **Use cases: autonomous engine control**



Supervision (TDoA)



- ✓ **Synchronization to compute the positions**, thanks to the “Location Engine” (provided by Decawave)
- ✓ **Range: 50 m**
- ✓ **Accuracy: 10 to 30 cm** (depending on the environment)
- ✓ **Tags density: up to 1000**
- ✓ **Data rate: 1000 tags of 1 second**
- ✓ **Autonomy: 1 year**
- ✓ **Use cases: goods or people monitoring/supervision**



Badges (Mesh)



- ✓ **No infrastructure required**
- ✓ **Range: 30 m**
- ✓ **Tags density: high density in the covered area**
- ✓ **Data rate: 2Hz**
- ✓ **Autonomy: 2 days > 1 week**
- ✓ **Alert generation (“vibrate”, “buzz” or “flash” mode)** when the tags are too close, or too far (customisable distance)
- ✓ **Logs generation** with the history of contacts
- ✓ **Additional connectivities** for data centralization
- ✓ **Use cases: social distancing respect** (pedestrian to pedestrian), distances between persons and machines (vehicle to vehicle or pedestrian to vehicle)



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