PRODUCT BRIEF

Gen4 AoA CoreRTLS Tag - Personnel Applications

CHW-TAG4001 & CHW-TAG4002 v1.4

KEY FEATURES

- Highly accurate 3D positioning down to 10 cm with the Gen4 CoreRTLS system
- CoreHW patented antenna technology
- Based on Bluetooth® Angle-of-Arrival technology
- Long range with output power up to +10 dBm
- Accelerometer
- Temperature sensor
- Programmable button
- Battery life up to 3 years
- Over-The-Air (OTA) FW update
- Remote configuration capability
- IP67 protection rating
- Operating temperature range -30 to +85 °C (depending on the used battery)
- Dimensions 42 mm x 52 mm x 15.5 mm
- Weight 28 g
- Custom color options possible; availability assessed upon request.

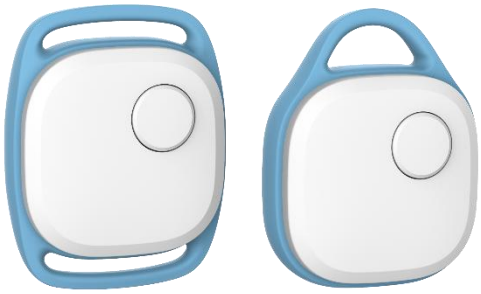


Figure 1. CHW-TAG4001 Wrist Tag & CHW-TAG4002 Lanyard Tag.

APPLICATIONS

- Real Time Location System (RTLS)
- High accuracy personnel tracking for e.g. healthcare staff & patient applications

DESCRIPTION

The CoreRTLS Wrist Tag CHW-TAG4001 and Asset Tag CHW-TAG4002 are ideal for RTLS (Real time location system) personnel tracking applications which require high accuracy, providing position accuracy down to ±10 cm in the most demanding radio environments.

The CoreRTLS Tags contain CoreHW patented antenna technology, making it ideal for wearable personnel applications. It also provides superior immunity to RF multipath effects compared to common PCB or chip antenna technologies, allowing it to maintain the highest accuracy even in the most challenging RF environments. The CoreHW proprietary range extender gives the Tag selectable transmit power up to +10 dBm, enabling more reliable tracking at long range.

The CoreRTLS Tags with CoreHW firmware send CTE (Constant Tone Extension) packages that support AoA and provide data communication and tag configuration. The firmware is updateable over-the-air, enabling easy system updates.

The internal accelerometer can be used to detect movement, allowing the tag to remain in lower power modes when stationary, helping to extend battery life. When in motion, it can shift to faster interval modes, enabling high accuracy, low latency motion tracking.

The programmable button enables implementation of location-aware events, such as personnel duress alarm.

The physical design of this product is optimized for wrist-worn, or lanyard use cases as seen in Figure 1. With an IP67 protection rating, it is compatible with normal washing and sanitizing activities.

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