

# Zebra WhereTag IV



The WhereTag IV enables Zebra Location Solutions to provide fully integrated, “best of breed”, Real-Time Locating System (RTLS) solutions. It is compliant with both the ISO/IEC 24730-2 RTLS standard and Cisco Compatible Extensions (CCX) for Asset Tags. Programmable to transmit in either mode or both; operation can be optimized to meet the location requirements of the application.

ISO/IEC 24730-2 mode is used to provide high-precision locations in industrial and outdoor applications, while CCX mode is normally used in “front office” applications. Zebra’s ISO/IEC 24730-2 RTLS solutions utilize Time Difference of Arrival (TDOA) to attain the highest possible accuracy in hostile environments. In many applications, precision within less than two meters can be provided to optimize business applications. Cisco’s Unified Wireless Network can utilize CCX to minimize installation costs and complexity by using a single wireless infrastructure. The use of either technology enables the WhereTag IV to provide enterprise-wide tracking of assets, personnel and WIP transactions.

The WhereTag IV can be programmed to “blink” RF transmissions at rates ranging from four seconds to multiple hours. Power output is also configurable to match the requirements of the application environment. The WhereTag IV operates in the globally accepted 2.4GHz frequency band and utilizes Direct Sequence Spread Spectrum (DSSS) technology to maximize range and battery life. Battery life can be up to 7 years in ISO/IEC 24730-2 mode and up to 5 years in CCX and multimode operations.

The WhereTag IV can also be triggered by a low-frequency magnetic signal from a WherePort exciter. This capability is utilized to modify the pre-programmed blink rate and to indicate proximity (localization) to a specific WherePort. WherePorts can also trigger changes between ISO/IEC 24730-2 mode, CCX compatible mode or multimode from a distance of up to 7.5 meters.

## The Benefits of WhereTag IV

- Single or Multimode Operation
- Constant Asset Visibility
- Enterprise-wide Asset Tracking
- Configurable Power Output
- Long Range and Battery Life
- HERO Tested
- Intrinsically Secure Tag Variant
- Motion-Sensing Tag Variant

## WhereTag IV Tag Variants

The WhereTag IV design has multiple product variants that are currently available:

- WhereTag IV is the “Standard Asset Tag” design variant.
- The WhereTag IV IS (Intrinsically Safe) is a tag variant designed for use in Class I, Division 1, Hazardous Locations.
- The WhereTag IV AT is the “Alarm Tag” design variant for motion-sensing and motion-activated solutions
- The WhereTag IV S (Secure) is a tag variant that has the WiFi functionality permanently disabled. Only the ISO/IEC 24730-2 Mode is enabled.

## PRODUCT SPECIFICATIONS

PHYSICAL	
Size	43.7mm x 66.0mm x 21.3mm (1.72in x 2.60in x 0.84in)
Weight	51g (1.8oz)
ENVIRONMENTAL	
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Storage Temperature	-30°C to +70°C (-22°F to +158°F)
Environmental Sealing	IP67 (Dust-tight, Immersible)
Durability	1.8m (6ft) Drop to Concrete
POWER	
Battery	AA Lithium Thionyl Chloride Cell (Non-Replaceable)
PERFORMANCE	
ISO 24730-2 Mode	<ul style="list-style-type: none"> <li>• Frequency Range: 2.4GHz to 2.483GHz</li> <li>• Typical Locate Range, Indoors: 100m (325ft)</li> <li>• Typical Locate Range, Outdoors: 1,000m (3,250ft)</li> <li>• Typical Read Range, Indoors: 200m (650ft)</li> <li>• Typical Read Range, Outdoors: 1,750m (5,700ft)</li> <li>• User Configurable Blink Rate: 1 second to 5 days</li> <li>• Typical Battery Life: 5 years</li> </ul>
CCX Mode	<ul style="list-style-type: none"> <li>• Frequency Range: 2.4GHz to 2.5GHz</li> <li>• Typical Locate Range, Indoors: 20m (65ft)</li> <li>• Typical Read Range, Indoors: 50m (160ft)</li> <li>• User Configurable Blink Rate: 1 second to 5 days</li> <li>• Typical Battery Life: 3 years</li> </ul>
REGULATORY APPROVALS	
Asia Pacific	<ul style="list-style-type: none"> <li>• China CMIIT</li> <li>• Korea KCC</li> </ul>
Europe	<ul style="list-style-type: none"> <li>• CE, R&amp;TTE Directive 99/5/EC: EN 300 328, EN 301 489-1/-17, EN 60950-1</li> </ul>
North America	<ul style="list-style-type: none"> <li>• FCC Part 15 Class B, Part 15.247</li> <li>• Industry Canada ICES-003, RSS-210, RSS-GEN</li> <li>• Mexico NOM</li> <li>• ANSI INCITS 371.1-2003</li> <li>• HERO Tested</li> <li>• IS Certification: UL 60950-1/CSA 22.2 No. 60950-1 &amp;</li> </ul>
South America	<ul style="list-style-type: none"> <li>• Argentina CNC</li> <li>• Brasil ANATEL</li> <li>• Columbia CRC</li> </ul>
Worldwide	<ul style="list-style-type: none"> <li>• ISO/IEC 24730-2 Compliant</li> <li>• Cisco CCX Compliant</li> </ul>

## PART NUMBERS

Part Number	Description
TFF-2005-00AA	WhereTag IV, Standard Asset Tag
TFF-2005-0EAA	WhereTag IV IS, Intrinsically Secure Tag
TFF-2005-0MAA	WhereTag IV AT, Alarm Tag
TFF-2005-0XAA	WhereTag IV S, Secure Tag (ISO Only)

### PRODUCT ACCESSORIES

- WhereTag IV Snap-On Mounting Ring
- Vehicle Rearview Mirror Mount
- Trailer, Rail Car and ISO Container Mount

