



WhereTag IV™



SEE MORE. DO MORE.



The First Multimode RTLS Asset Tag that Combines the Open Standard of ISO/IEC 24730-2 with IEEE802.11 for a Complete Asset Visibility Solution

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 802.11 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.

WhereTag IV™ Benefits

- Single or Multimode Operation
- Constant Asset Visibility
- Enterprise Wide Asset Tracking
- Configurable Power Output
- Long Range and Battery Life
- HERO Tested
- IS Certified Version

The WhereTag IV can be programmed to “blink” RF transmissions at rates ranging from 4 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 2.4 GHz 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, Wi-Fi mode (CCX compatible), or multimode from a distance of up to 7.5 meters.

An Intrinsically Safe (IS) version is available for use in hazardous and explosive environments. The WhereTag IV IS is certified to be safe for Class 1, Division 1, Groups A-D, T6 environments.

The WhereTag IV enables Zebra Location Solutions, the leader in RTLS, to provide technology and solutions tailored to match application requirements.

SPECIFICATIONS

Model

TFF-2000

Environmental/Physical/Power

Size

43.7 mm x 66.0 mm x 21.3 mm
(1.72 in. x 2.60 in. x 0.84 in.)

Weight

51 g (1.8 oz)

Operating Temperature

-30° C to +70° C (-22° F to +158° F)

Storage Temperature

-30° C to +30° C (-22° F to +86° F)

Environmental Sealing

IP68 (Dust tight, Immersible)

Durability

1.8 m (6 ft) Drop to concrete

Antenna I

Integral Omni-directional

Battery

AA Lithium Thionyl Chloride cell
(Not replaceable)

Output Power

Configurable

Performance

ISO 24730-2 Mode

- Frequency Range: 2.4 to 2.483 GHz
- Typical Locate Range, Indoors: 120 m (400 ft)
- Typical Locate Range, Outdoors: 1,000 m (3,200 ft)
- Typical Read Range, Indoors: 280 m (920 ft)
- Typical Read Range, Outdoors: 1,750 m (5,700 ft)
- User Configurable Blink Rate: 1 sec to 5 days
- Typical Battery Life: 7 years¹

IEEE 802.11b CCX Mode

- Typical Locate Range, Indoors: 21 m (70 ft)
- Typical Read Range, Indoors: 54 m (180 ft)
- User Configurable Blink Rate: 1 sec to 5 days
- Typical Battery Life: 5 years¹

Regulatory Approvals

North America

- FCC Part 15 Class B, Part 15.247
- Industry Canada ICES-003, RSS-210, RSS-GEN
- ANSI INCITS 371.1-2003
- HERO Tested
- WhereTag IV IS: Met Labs IS Certification-UL60950-1/CSA C22.2 No. 60950-1 & UL913

Europe

- CE, R&TTE Directive 99/5/EC: EN 300328, EN 301489-1/-17, EN 60950-1

Worldwide

- ISO/IEC 24730-2 Compliant
- Cisco CCX Compliant

Tag Mounting Options

- WhereTag IV Snap-On Mounting Ring (The optional WhereTag IV Snap-on Mounting Ring fits onto the WhereTag IV asset tag to provide identical mounting tabs with screw and rivet holes to match the standard WhereTag III design.)
- Vehicle Rearview Mirror Mount
- Trailer, Rail Car, and ISO Container Mounts

¹Dependent on programmable settings such as blink rate, and environmental temperature. Operation or Storage at extreme temperatures will affect battery life.

Specifications are subject to change without notice.



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