

Zebra WhereTag IV GT



WhereTag IV GT is a Real-Time Locating System (RTLS) GPS tag for tracking outdoor assets and equipment. It is ideal for tracking equipment in sites with minimal sensor infrastructure installed, such as airports, marine terminals or remote storage facilities. The tag is designed to be easily mounted to vehicles, material-handling equipment or large tools. The WhereTag IV GT is both an RTLS tag and a simple telemetry device. In addition to providing accurate location data, the tag also provides sensor and serial data backhaul capability.

The WhereTag IV GT uses Global Navigation Satellite Systems (GNSS) to determine its location and then sends that location information over the WhereNet ISO 24730-2 RTLS Blink Stream. With the implementation of the WhereTag IV GT, RTLS sites can be covered for far less cost, effort and equipment than is required for a typical Wi-Fi site installation, and is less costly than a monthly cellular access fee. The tag is programmable to select satellite constellation, data transmission frequency and battery savings modes.

In addition to supporting GNSS, the WhereTag IV GT supports all the features and functionality of the WhereTag IV Asset Tag. 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 GT to provide enterprise-wide tracking of assets.

The WhereTag IV GT can also be triggered by a low-frequency magnetic signal from a WherePort Tag 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, Wi-Fi and CCX compatible modes from a distance of up to 7.5 meters.

The WhereTag IV GT also adds support for standard Wi-Fi wireless infrastructure (802.11b/g). In use cases where Wi-Fi infrastructure is already available, additional infrastructure costs can be minimized. In cases where Wi-Fi coverage is not available, the WhereLAN III RTLS Sensor, using ISO 24730-2, may often provide a far more cost-effective implementation.

The WhereTag IV GT operates in the globally accepted 2.4GHz frequency band and utilizes Direct Sequence Spread Spectrum (DSSS) technology to maximize range and signal reliability. Battery life can be up to 2 years in ISO/IEC 24730-2 mode and up to 1 year in CCX and multimode operations.

The WhereTag IV GT extends the family of tag options from Zebra Technologies, the leader in RTLS.

The Benefits of WhereTag IV GT

- Support for GPS, SBAS and A-GPS
- Support for ISO/IEC 24730-2, Cisco CCX and 802.11b/g Wi-Fi
- Long Battery Life
- Replaceable Battery Packs
- Battery or External Power Options
- Telemetry and Sensor I/O Interface

PRODUCT SPECIFICATIONS

PHYSICAL	
Size	46mm x 162mm x 99mm (1.8in x 6.4in x 3.9in)
Weight	TFF-3110-00AB: 562g (19.8oz) TFF-3110-01AB: 705g (24.9oz)
ENVIRONMENTAL	
Operating Temperature	-30°C to +65°C (-22°F to +149°F)
Storage Temperature	-30°C to +65°C (-22°F to +149°F)
Environmental Sealing	IP67 (Dust-tight, Immersible)
Durability	1.8m (6ft) Drop to Concrete
POWER	
TFF-3110-00AB (Basic Tag)	2x Lithium Thionyl Chloride D-Cell (Replaceable)
TFF-3110-01AB (Vehicle I/O Tag)	12VDC, 40mA External Power Input
PERFORMANCE	
ISO 24730-2 Mode	<ul style="list-style-type: none"> Frequency Range: 2.4GHz to 2.483GHz Typical Communication Range, Indoors: 200m (650ft) Typical Communication Range, Outdoors: 1,750m (5,700ft) User Configurable Blink Rate: 5 seconds to 5 days Typical Battery Life: 2 years
IEEE 802.11 CCX or Wi-Fi Mode(s)	<ul style="list-style-type: none"> Frequency Range: 2.4GHz to 2.5GHz Typical Communication Range, CCX Indoors: 50m (160ft) Typical Communication Range, Wi-Fi Indoors: 50m (160ft) User Configurable Blink Rate: 5 seconds to 5 days Typical Battery Life: 1 year
REGULATORY APPROVALS	
Asia Pacific	<ul style="list-style-type: none"> China CMIIT
Europe	<ul style="list-style-type: none"> CE, R&TTE Directive 99/5/EC: EN 300 328, EN 301 489-1/-17, EN 60950-1
North America	<ul style="list-style-type: none"> FCC Part 15 Class B, Part 15.247 Industry Canada ICES-003, RSS-210, RSS-GEN Mexico NOM
South America	<ul style="list-style-type: none"> Argentina CNC Brasil ANATEL Columbia CRC
Worldwide	<ul style="list-style-type: none"> ISO/IEC 24730-2 Compliant Cisco CCX Compliant

PART NUMBERS

Part Number	Description
TFF-3110-00AB	WhereTag IV GT, Basic GPS Tag
TFF-3110-01AB	WhereTag IV GT, Vehicle I/O GPS Tag

PRODUCT ACCESSORIES

- WhereTag IV GT Replacement Battery Packs
- WhereTag IV GT Mounting Kit
- WhereTag IV GT Security Upgrade Kit

