



Zebra Enterprise Solutions

UWT-1100 TAG

User Manual

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1. Introduction

The UWT-1100 tag is a wireless ultra-wideband (UWB) device from Zebra Enterprise Solutions (ZES) that is used for real-time tracking and identification of assets and personnel. This tag transmits UWB pulses which are detected by a series of Dart UWB receivers. The receivers will report detected tag events back to the Dart RTLS location processing hub where tag location information is computed and reported. The UWT-1100 tag provides extended range and precision that is unmatched by conventional RFID solutions. The UWT-1100 uniquely provides reliability and accuracy in difficult electromagnetic and multipath environments, along with superb battery life for use in demanding industrial requirements.

2. Operation

The UWT-1100 tag is shipped with the transmitter off. Tag transmitters are turned on (activated) using a ZES configurator tool. UWT-1100 tags transmitting at one blink per second are expected to last over 5 years. UWT-1100 tag batteries are non-replaceable.

3. Installation

With the proper infrastructure installation in place, the installation of additional UWT-1100 tags is complete when the tag is activated using the UWD-3100 DartWand tag configuration tool.

4. Adjustment

No adjustment is necessary once the UWT-1100 is activated. The user may choose to program the tag transmit rate or other additional features with the WND-3100 DartWand tag configuration tool.

5. Regulatory Information

US Regulatory Information

FCC ID: XWX-UWT1100

This device complies with FCC Part 15.250 (c).

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) this device must accept any interference which may cause undesired operation

Operation under the provisions of this section is limited to wideband transmitters employed in the following limitations;

(1) Operation on board an aircraft or satellite is prohibited.

(2) Devices operating under this section may not be employed for the operation of toys.

(3) Except for operation onboard a ship or terrestrial transportation vehicle, the use of a fixed outdoor infrastructure is prohibited. A fixed infrastructure includes antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable

protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canada Regulatory Information

IC ID: 8701A-UWT1100

This device complies with ICES-003, RS-220, and RSS-GEN for indoor use only.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) this device must accept any interference which may cause undesired operation

Operation under the provisions of this section is limited to wideband transmitters employed in the following limitations;

- (1) Operation on board an aircraft or satellite is prohibited.
- (2) Devices operating under this section may not be employed for the operation of toys.
- (3) Except for operation onboard a ship or terrestrial transportation vehicle, the use of a fixed outdoor infrastructure is prohibited. A fixed infrastructure includes antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole.

RF Notice

Any changes or modifications to Zebra Enterprise Solutions (ZES) equipment not expressly approved by ZES could void the user's authority to operate the equipment.

6. Specifications

Model Number	UWT-1100
Blink Rate (Hz)	User programmable from .01 Hz (every 10 seconds) to 200 Hz (200 times per second)
Center Frequency	6.55 GHz
Transmit Frequency	5.35 – 6.75 GHz
Typical Battery Life	7 years@ 1 Hz
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Dimensions	Ø4.0 x 2.0 cm (Ø1.57 x .78 in)
Weight	20 gm (0.70 oz)
Power	BR2335