

# Zebra TFF-5110 Badge Tags

## Enable accurate asset and personnel visibility

Zebra WhereNet and Bluetooth® low-energy technologies enable accurate asset and personnel visibility over long ranges with robust accuracy. They can locate assets within large-space, industrial environments such as manufacturing, warehouse and distribution facilities.



### Zebra WhereNet and Bluetooth Badge Tags

#### Enhance Employee Productivity and Safety

Zebra WhereNet and Bluetooth Badge Tags are compact devices designed specifically to generate real-time data about the location of staff, giving organizations the insights needed to enhance the productivity and safety of workers.

#### Easy To Configure and Deploy

Easy to install and deploy, Zebra WhereNet and Bluetooth Badge Tags are customizable for a wide range of use cases, including but not limited to: controlling restricted-access areas; workflow tracking; automated time clock in/out; analyzing relationships between employees and work stations; and monitoring employee safety protocols during emergencies.

#### Highly Accurate

Zebra WhereNet Badge Tags can locate within a range of approx. 3 meters at a distance of 200 meters indoors, and 1,000 meters outdoors using Zebra WhereNet technology, or they can self-locate by listening for fixed Bluetooth® low-energy beacons.

#### Optimized To Maximize Visibility

While compatible with third-party solutions, WhereNet Badge Tags have been optimized to work with Zebra's MotionWorks™ location solutions. With WhereNet and Bluetooth low-energy solutions, Zebra maximizes your operational visibility, so you can gather critical information into how your business operates.

# TFF-5110-00AB\* Specifications

Physical Characteristics	
<b>Dimensions</b>	75.5 mm x 94.0 mm x 14.8 mm (2.97 in x 3.70 in x 0.58 in); Sized to hold typical employee identification badge
<b>Durability</b>	1.5 m (5 ft) drop to Vinyl
<b>Weight</b>	70g (2.5 oz)
Performance Characteristics	
<b>Wireless (Wi-Fi) Compatibility</b>	2.4 GHz radio transceiver Wi-Fi capable (not implemented)
<b>Antenna Type(s)</b>	Omni-directional
<b>WhereNet Compatibility</b>	ISO 24730-2 Mode WhereNet solution compatible WhereNet based location Frequency range: 2.4 GHz band Typ. Indoor read range: 200m (650 ft) Typ. Outdoor read range: 1,000 m (3,280 ft)
<b>BLE Compatibility</b>	Bluetooth 4.0 and 4.1 2.4 GHz frequency band Bluetooth® low-energy scanning Bluetooth® low-energy beacon transmit (capable, not implemented)
<b>Configuration</b>	WhereWand or NFC application (Not MC9000)
<b>Accelerometer</b>	Default profile with motion gating to extend battery life. Custom profile capable.
<b>Location Capability</b>	Proximity or full x,y location based on deployment specifics
<b>Location Engine/Solution</b>	Compatible with Zebra MotionWorks Enterprise Platform
<b>Availability</b>	Available only as part of Zebra solutions and approved Zebra partner solutions

User Environment	
<b>Operating Temperature</b>	0°C to +50°C (-4°F to +122°F)
<b>Storage Temperature</b>	-40°C to +30°C (-40°F to +86°F)
<b>Power</b>	1860mAh coin cell battery
<b>Operating Lifetime Estimate</b>	Approximately 1 year at 1.5 min BLE scan rate with motion gating enabled

**Regulatory**

Classifications change based on country. Zebra certifies products to standards for RF spectrum efficiency, EMC/EMI, health and safety, and environmental compliance for the U.S., the E.U., the U.K. and potentially others countries. For a full list of specifications reference Zebra's declaration of conformity. For a list of approved countries please contact Zebra's sales or product management teams.

Warranty
Subject to the terms of Zebra's hardware warranty statement, TFF-5110-00AB is warranted against defects in workmanship and materials for a period of 12 months from the date of shipment. For the complete Zebra hardware product warranty statement, go to: <a href="http://www.zebra.com/warranty">http://www.zebra.com/warranty</a>
Footnotes
*The "AB" designation in the part number represents a revision to the product. Later revisions are the most recent. All revisions provided have the same basic function. The specifications herein are subject to change without notice and actual performance will in some cases depend on product configuration and actual usage.

## Markets and Applications

### Manufacturing

- Staff tracking
- Automated time clock in/out
- Workflow tracking
- Safety/access control

### Transportation and Logistics

- Staff tracking
- Automated time clock in/out
- Workflow tracking
- Safety/access control

### Healthcare

- Staff tracking
- Automated time clock in/out
- Workflow tracking
- Safety/access control

### Retail

- Staff tracking
- Automated time clock in/out
- Workflow tracking
- Safety/access control



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