



TFF-5110 Zebra WhereNet & Bluetooth® Low-Energy 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 and Savanna™ data intelligence platform. With WhereNet and Bluetooth® low-energy solutions, Zebra maximizes your operational visibility, so you can gather critical information into how your business operates.

Zebra TFF-5110 WhereNet and Bluetooth Badge Tags deliver the data your enterprise can use to give your operations a performance edge over the competition.

For more information, visit www.zebra.com/wherenet

TFF-5110-00AA Specifications

Physical Characteristics	
Dimensions	75.5mm x 94.0mm x 14.8mm (2.97in x 3.70in x 0.58in). Sized to hold typical employee identification badge.
Durability	1.5m (5ft) drop to Vinyl
Weight	70g (2.5oz)
Performance Characteristics	
Wireless (Wi-Fi) Compatibility	2.4 GHz radio transceiver Wi-Fi capable (not implemented)
Antenna Type(s)	Omni-directional
WhereNet Compatibility	ISO 24730-2 Mode WhereNet solution compatible WhereNet based location Frequency range: 2.4 GHz band Typ. Indoor read range: 200m (650ft) Typ. Outdoor read range: 1,000m (3,280ft)
BLE Compatibility	Bluetooth 4.0 and 4.1 2.4 GHz frequency band Bluetooth® low-energy scanning Bluetooth® low-energy beacon transmit (capable, not implemented)
Configuration	WhereWand or NFC application (Not MC9000)
Accelerometer	Default profile with motion gating to extend battery life. Custom profile capable.
Location Capability	Proximity or full x,y location based on deployment specifics
Location Engine/Solution	Zebra Savanna Location Engine/Zebra Motion Works Solutions or similar third-party solutions
Availability	Available only as part of Zebra solutions and approved Zebra partner solutions
User Environment	
Operating Temperature	-20°C to +50°C (-4°F to +122°F)
Storage Temperature	-40°C to +30°C (-40°F to +86°F)

Power	1860mAh coin cell battery
Operating Lifetime Estimate	Approximately 1 year at 1.5 min BLE scan rate with motion gating enabled
Regulatory	
Classification	Europe CE Radio Equipment Directive (RED) 2014/53/EU EN 300 328 EN 301 489-1/-17 EN 60950-1 North America FCC Part 15 Class B UL 60950-1 IndustryCanada CES-003 RSS-210 RSS-247 C22.2 #60950

Warranty
Subject to the terms of Zebra's hardware warranty statement, TFF-5110-00AA 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: http://www.zebra.com/warranty .

The specifications herein are subject to change and actual performance will in some cases depend on product configuration and actual usage.

Ideal for:

Industries

- Manufacturing
- Transportation & Logistics
- Healthcare & Retail

Applications

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



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