Zebra Enterprise Solutions

DartTag Portfolio

DATASHEET

Ultra-Wideband Active Tags

DartTag UWB Active Tags are UWB transmit, FCC (US) and ESTI (EU) compliant, devices that communicate with the Dart Real Time Location System. Each tag has a unique ID that can be associated with a specific asset.

DartTag transmissions are extremely short in duration, providing excellent real-time location accuracy and permitting thousands of tags to be simultaneously detected. The short durations are also fundamental to offering exceptionally long battery life. For example, the DartTag (programmed at 1 Hz blink rate) can be used to continuously track an asset for over seven years. Tags are powered with a 3V coin cell battery and can be turned on/off and wide array blink rates configured via the Zebra DartWand.

Both the DartTag Asset and Badge tags are dust and waterproof (IP67 rated) and are built with robust components designed to withstand multiple six-foot drops. For applications in hazardous environments requiring intrinsically safe certification, both tags are also available as ATEX Zone1, IIC, T3 option.

Two Standard DartTag Form Factors Available

DartTag

A general-purpose asset tag providing best performance and longest battery life for larger parts, high-valued items and industrial assets. Integrated into the design of the tag are features to allow easy mounting of straps or ties and an optional screw plate mounting bracket.

DartTag Badge

A badge tag providing a low profile format and optimal performance for personnel. Tag design allows for mounting via badge clip.

DartTag Features:

- FCC Part 15.250 and Draft ETSI EN 302 500-1 V2.1.1 compliant
- IP67 rated – fully dust and waterproof
- Exceptional performance – Performs in high multi-path environments
- Excellent real-time location accuracy - Better than 30cm (1 foot) line of sight
- Long tag battery life - Up to 7 years at 1 Hz blink rate
- Long RF Range – Up to 200 meters (650 feet)
- Programmable on/off and wide range of tag transmission rates
- ATEX Zone1, IIC,T3 Option

DartTag Specifications*

	DartTag	DartTag Badge
Part Number		
Standard	UWT-1100-A-00AA	UWT-1200-A-00AA
ATEX	UWT-1100-A-0AAA	UWT-1200-A-0AAA
Pre-Programmed Blink Rate		
Blink Rate (Hz)	Programmable from 0.01 to 200 Hz	
Performance		
Frequency Range	6.35 - 6.75 GHz	
Typical Battery Life	7 years @ 1Hz	
Locate, Indoors		
Typical Range	50 m (164 ft)	
Read (Presence), Indoors		
Typical Range	100 m (328 ft)	
Environmental/Physical/Power		
Operating Temperature	-40°C to 70°C (-40°F to 158°F)	
Environmental Rating	IP67	
Length	Ø4.0 cm (1.57 in)	4.22 cm (1.66 in)
Width		0.71 cm (0.28 in)
Height	2.0 cm (0.78 in)	7.42 cm (2.92 in)
Weight	20 gm (0.70 oz)	18 gm (0.63 oz)
Power	BR2335	
Regulatory Approvals		
United States	FCC Part15 subpart C (15.250), ICES-003, RS-220, and RSS-GEN for indoor use only	
European Union	CE, EN50371, ETSI 301 489-1, ETSI 301 489-33, Draft ETSI EN 302 500-1 V2.1.1	
ATEX Option	CE 0035 Ex II 2 G Ex ib IIC T3 -40C ≤ Ta ≤ 70C	
Mounting Options		
Typical Mounting	Strap, Tie, Mounting tape; Optional screw mount	Badge Clip

*Specifications subject to change without notice.

About Zebra Enterprise Solutions

Zebra Enterprise Solutions, a division of Zebra Technologies Corporation, extends Zebra's reach beyond passive RFID by employing state-of-the-art software and hardware solutions to locate, track, manage, and optimize high-value assets, equipment and people across the world's largest supply chains. Whether tracking containers through a port, optimizing parts for manufacturing, or managing ground support equipment at an airport, the real-time asset management solutions from the combination of Navis, WhereNet, proveo, and Multispectral Solutions provide improved visibility and velocity to gain measurable business improvements. Utilizing products that are based on ISO/IEC 24730-2, Cisco CCX Wi-Fi, precision GPS, and UWB technologies, Zebra Enterprise Solutions offers a wide range of location solutions that are "application matched," enabling its customers to put the right asset in the right place at the right time.

For more information please visit us at **www.zebra.com/zes**

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