



DartWand Module



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Dart Ultra-Wideband (UWB) Tag Manager

The Zebra DartWand Module enables end users to easily set-up, configure and manage thousands of Zebra DartTags. DartTags are small, battery powered Ultra-Wideband (UWB) wireless devices that periodically transmit their unique ID, typically utilized in asset management applications. DartTags are configured using low-frequency (LF) wireless transmissions. The DartWand Module transmits LF commands to the DartTags to turn tags on/off, and to set their reporting rate. In turn, the DartWand Module receives command acknowledgement from the DartTags via their UWB channel.

The DartWand Module is powered via a USB connector and is controlled via the included DartWand application software. A typical DartWand Module system consists of a computer with the DartWand software, the DartWand Module with included USB cable and an optional barcode scanner.

DartWand Features

- Easy tag list generation/ association via barcode or LF wireless ping
- Capable of configuring up to 100 tags at once
- Configurable DartTag on and off
- Compliant with International UWB Standard, IEEE 802.15.4.f, as well as ISO-2430-61 Draft International standard
- 12 configurable DartTag blink rates from 0.01 to 200 Hz
- Controllable UWB read range from one foot to over 500 ft line-of-sight
- Capable of inventorying and providing reports on thousands of DartTags

DartTag Configuration

The DartWand application can generate a tag configuration list via manual file input, a barcode scan of each tag or tag package list and by finding tags within LF transmit range (typically 2 feet in front of the module). The DartWand Module can configure any DartTag within its LF range, up to 100 tags at once.

The DartWand allows you to turn tags on or off and allows you to select the tag's blink rate. DartTags can be programmed in 12 step iterations, from 0.01 Hz (one blink every 75 seconds) to 200 Hz (one blink every 0.005 seconds). The DartWand is sold with a Windows application which supports command retry and confirmation messaging to ensure that the targeted DartTags are configured properly.

DartTag Inventory Management

The DartWand system can also function as a Dart UWB tag reader. In inventory mode, the DartWand has a line-of-sight range of over 500 feet from DartWand to the targeted DartTag. The UWB read range can be attenuated from this 500 foot read range down to one foot, providing the ability to pinpoint the distance to DartTags. The DartWand inventory application displays a DartTag's unique ID, time last seen, battery level, and average blink rate for thousands of concurrent tags. The inventory application table is configurable, sortable, and may be exported into a number of file formats.

SPECIFICATIONS

Model

WND-3100-A-00AA

Performance

Frequency Range

6.35 to 6.75 GHz

Antenna Gain

9.5 dBi

Environmental/Physical

Operating Temperature

-40°C to 70°C (-40°F to 158°F)

Environmental

IP54

Length

13.4 cm (5.26 in)

Width

8.23 cm (3.24 in)

Height

3.99 cm (1.57 in)

Weight

163 gm (5.76 oz)

Power

5V @ 0.25A

Wired Communications Interface

Computer

USB 2.0 (USB to Male Micro-B)

Regulatory Approvals

North America

FCC part 15 subpart B, ICES-003, RS-220, RSS-GEN

European Union

CE

Specifications are subject to change without notice.



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