UB-T100

UWB Tag

Quick Reference Guide

1st Ed – 10 Oct. 2020

Part No. E2017UBA1A0R

FCC Statement

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.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

A Message to the Customer

Avalue Customer Services

Each and every Avalue's product is built to the most exacting specifications to ensure reliable performance in the harsh and demanding conditions typical of industrial environments. Whether your new Avalue device is destined for the laboratory or the factory floor, you can be assured that your product will provide the reliability and ease of operation for which the name Avalue has come to be known.

Your satisfaction is our primary concern. Here is a guide to Avalue's customer services. To ensure you get the full benefit of our services, please follow the instructions below carefully.

Technical Support

We want you to get the maximum performance from your products. So if you run into technical difficulties, we are here to help. For the most frequently asked questions, you can easily find answers in your product documentation. These answers are normally a lot more detailed than the ones we can give over the phone. So please consult the user's manual first.

To receive the latest version of the user's manual; please visit our Web site at:

http://www.avalue.com.tw/

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1. Getting Started

1.1 Safety Precautions

Warning!

Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!

Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

1.2 Packing List

- 1 x USB Charging Cable

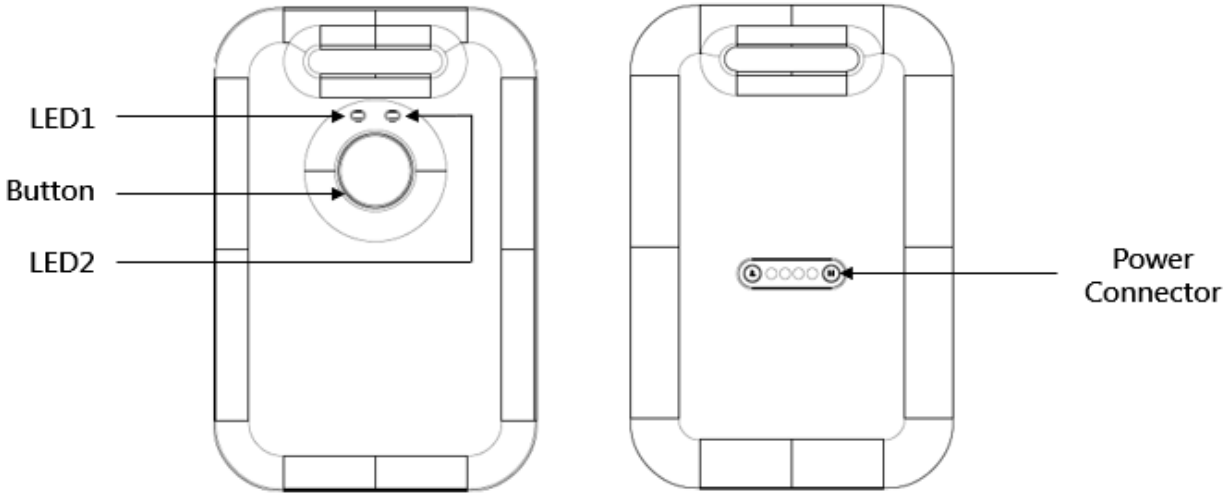
If any of the above items is damaged or missing, contact your retailer.

1.3 System Specifications

UWB RF Specifications	
Chip	Decawave DW1000
Physical rate	850K bps 6.8 Mbps
Antenna peak gain	2.6dBi
UWB RF Specifications	
Chip	Decawave DW1000
Physical rate	850K bps 6.8 Mbps
Software	
UWB operating mode	TDoA
Warning	SOS, emergency button Low Power
System	
Indicator Light	LED 1 (Green): Power Status Normal mode, the LED indicator OFF LED 2 (RGB) : Battery Status When fully charge, the LED indicator remain lit with Blue. When charging, the LED indicator flashes with Orange. When low power, the LED indicator flashes with Red. When normal battery power, the LED indicator OFF
Others	1 x Button When press button, Tag will broadcast ONE UWB signal package
Mechanical	
Power Connector Type	Magnetic Charging
Power Requirement	+5V DC-in
Dimension	90 x 60 x 10mm
Weight	0.27kg
Color	Black / White / Gray
Reliability	
EMI Test	CE/FCC ClassB
Safety	UL/CB design compatible
Operating Temperature	0°C~40°C
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Storage Temperature	-40°C~90°C

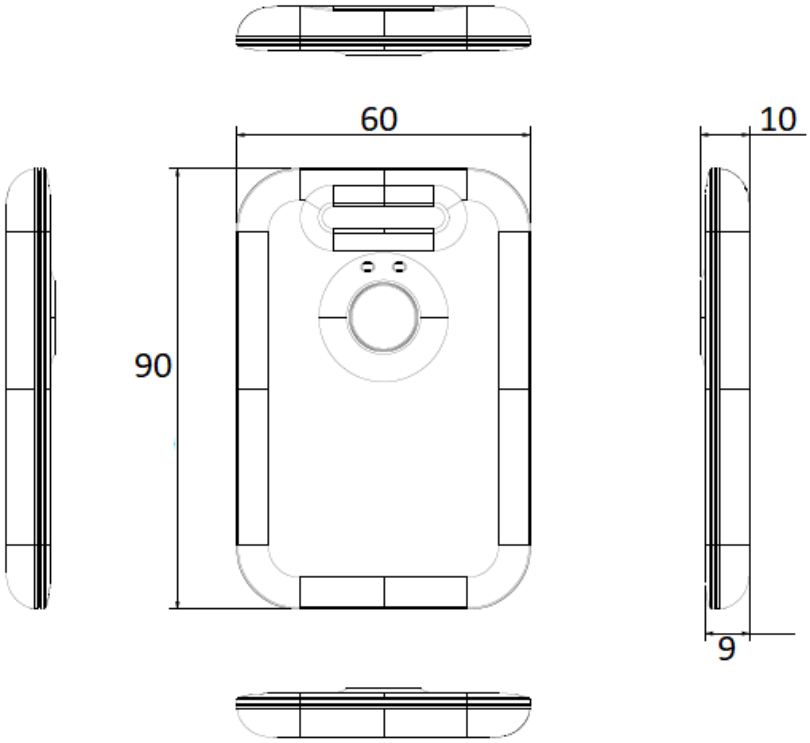
Note: Specifications are subject to change without notice.

1.4 System Overview



Label	Function
LED1	Battery Status
LED2	Power Status
BUTTON	Send Signal
POWER Connector	Magnetic Charging

1.5 System Dimensions



1.6 Operating