

UB-T100

ARTEMIS Tag

Quick Reference Guide

1st Ed – 26 November 2020

Copyright Notice

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FCC Statement



THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

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.

The charging cable is attached to the device by magnetic force. DO NOT attach the cable in a reverse polarity, as it may cause damage to the device.

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

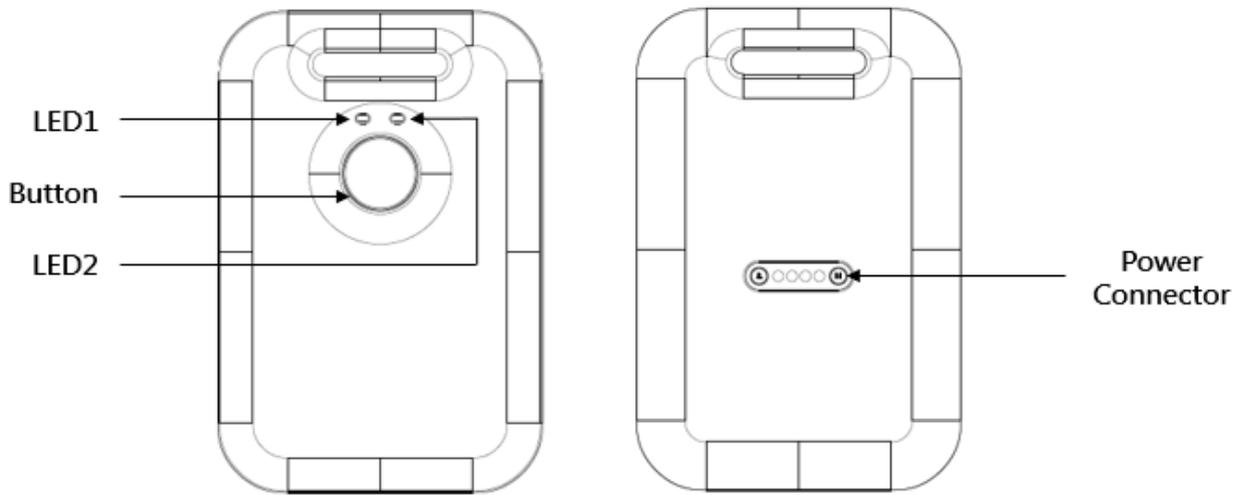
UWB RF Specifications	
Chip	Decawave DW1000
Frequency	3.25GHz ~6.75GHz (Channel 1/2/3/5)
Physical rate	850K bps 6.8 Mbps
Antenna peak gain	0.5dBi
Software	
UWB operating mode	TDoA
Warning	SOS, emergency button Low Power
System	
Indicator Light	LED 1 (RGB) : Battery Status LED 2 (Green): UWB Status
Others	1 x Function Button
Mechanical	
Power Connector Type	Magnetic Charging
Power Requirement	+5V DC-in
Dimension	90 x 60 x 10mm
Weight	39g
Color	Black / White
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

1.4.1 Top View

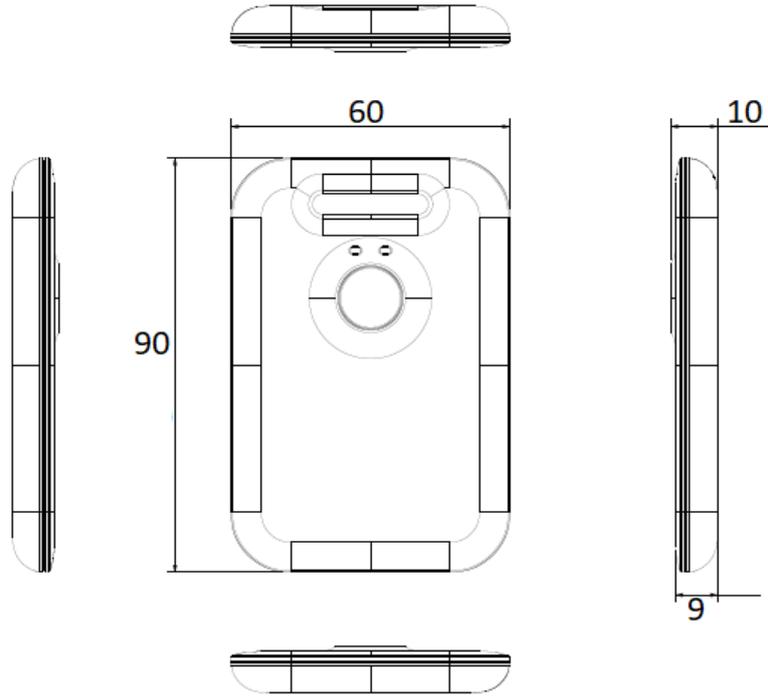


Label	Function
LED1	Battery Status
LED2	UWB Status
Button	Multi-function
Power Connector	Magnetic Connector

Mode	LED1	LED2	Remark
Normal	OFF	OFF	When power is higher than 21%
Low Power	Red Blinking	OFF	When power is lower than 20%
Charging	Orange (Charging) Blue (Fully Charging)	OFF	
Emergency	Red/Blue Blinking	OFF	Press & Hold button 3 seconds
Battery Check	Blue (66 ~ 100%) Green (33 ~ 65%) Red (0 ~ 32%)	OFF	Press 2 times within 1 second
Wake up	Depends on battery status	OFF	Press & Hold button more than 3 seconds and then release

Note: The device could not show the charging status when the device is 100% out of power. In this case, please charge the device for more than 1 minute, and re-plug the charging cable, and then the device can show the charging status normally.

1.5 System Dimensions



(Unit: mm)

