

Ex10 USB RFID Desktop Reader



Model: **Ustop Pro E710 L**
 Ustop Pro E710 U
 Ustop Eco E310 L
 Ustop Eco E310 U
Size: **190mmx136mmx24mm**

GENERAL DESCRIPTION

Ustop Pro E710 L/Ustop Pro E710 U/Ustop Eco E310 L/Ustop Eco E310 U are high-performance ultra-high UHF RFID desktop inventory platforms. Designed with fully independent intellectual property rights and proprietary efficient signal processing algorithms, these platforms maintain a high tag reading rate while enabling fast read/write processing of RFID tags. They can be widely used in various RFID systems such as retail, asset management, logistics, anti-counterfeiting, and production process control.

FCC ID: 2BQOY-E710L

FEATURES

- Self-intellectual property;
- Designed with IMPINJ E710 E710/E510/E310 and support ISO18000-6C(EPC C1G2) protocol tag, featuring excellent multi-tag anti-collision functionality;
- 902~928MHz frequency band;
- FHSS or Fix Frequency transmission;
- RF Output power up to 30 dBm (adjustable);
- Maximum inventory speed* up to 1000pcs/s (using E710) or 600pcs/s (using E510) or 350 pcs/s (using E310);
- Built-in antenna, typical reading effective distance <50cm*(optional ceramic antenna with a typical reading distance greater than 2m);
- Tag buffer size up to 1000PCS@96bits EPC;
- Supports USB 2.0 interface (virtual COM port mode and emulation keyboard mode), optional Bluetooth support;
- Low power dissipation with USB power supply;
- Provide DLL and Demonstration Software Source code to facilitate further development.
- Support RSSI;
- Supports firmware upgrades.

* Effective distance depends on antenna, tag and working environment.

CHARACTERISTICS

● Absolute Maximum Ratings

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	6	V
Operating Temp	T _{OPR}	-25 ~ +65	°C

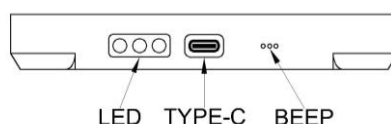
Storage Temp	T _{STR}	-40 ~ +85	°C
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● Electrical and Mechanical Specification

Under TA=25°C, VCC=+5V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC		5		V
Current Dissipation	I _C	700(5dBm)		1300 (30dBm)	mA
Frequency	F _{REQ}	-	865~868 (ETSI) 902~928 (FCC)	-	MHz
RF Output Power	P _{RF}	5		30	dBm
Receive Sensitivity	SR		-74(using E310) -81(using E510) -87(using E710)		dBm

INTERFACE



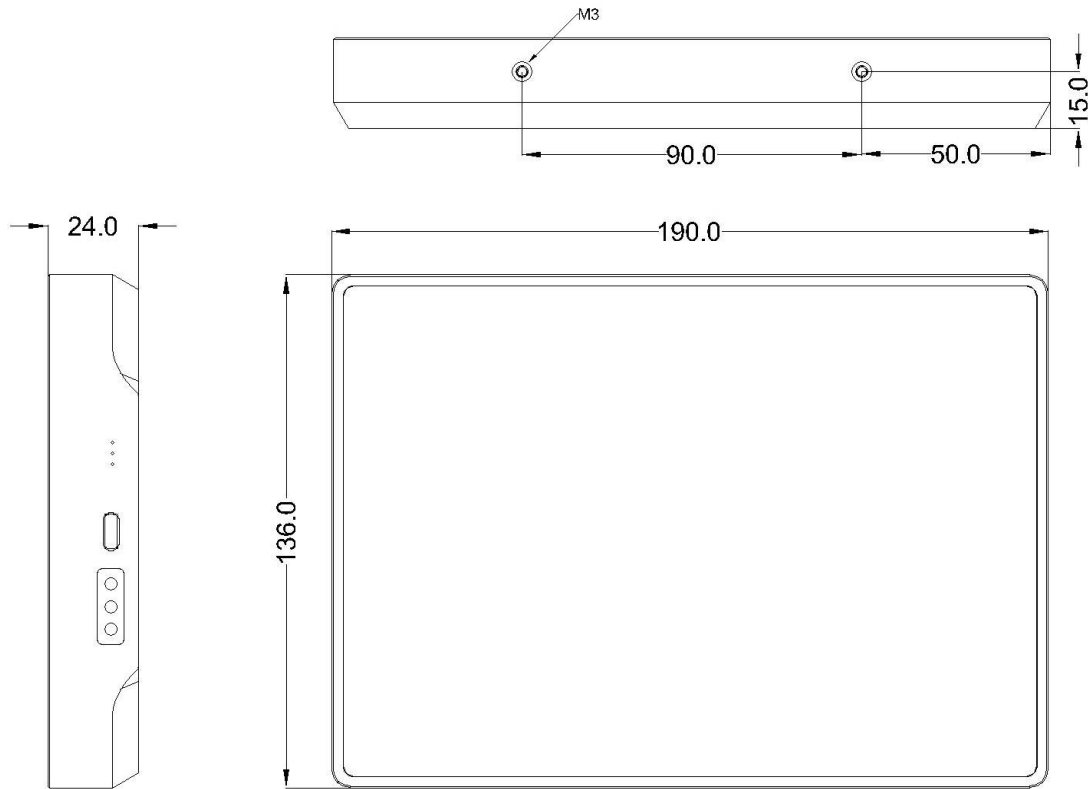
ITEM (from left to right)	SYMBOL	DESCRIPTION	REMARK
Bluetooth LED	BT	Bluetooth detected indication	BLUE
Operation LED	WORK	Tag detected indication	GREEN
Power LED	PWR	Power on indication	RED
USB Interface	TYPE-C	Type-C USB2.0	
BUZZER	BEEP	Power on indication Tag detected indication	

Depending on the model and configuration, the power supply, communication, and indicator lights on the device may vary slightly. Please refer to the actual product for details.

MECHANICAL DATA (UNIT:mm)

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Ustop Eco E310 L
Ustop Eco E310 U



ACCESSORY



Type-C USB 2.0 cable * 1 piece

Remark:

1. Specifications are subject to change, please pay attention to our latest version.
2. Ustek RFID Elektronik Yazılım AŞ reserves the right to the final interpretation of the above terms.

FCC Statement

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

RF warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

EU Regulatory conformance

This device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out. This product must be installed and operated with a minimum distance of 20 cm between the radiator and user body. There is no restriction to use this device across the EU countries.

Quadrifilar Helix Antenna

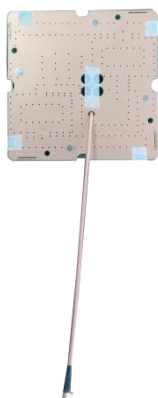
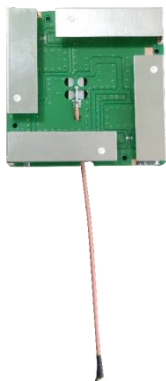
Model: RR-UANT104104-US

Descriptions

- ◆ 902-928MHz
- ◆ 6dBi
- ◆ Circular Polarization
- ◆ 104*104*11.5mm

Applications

- ◆ Intelligent retail
- ◆ Ice cabinet management
- ◆ Door control system
- ◆ Man management system

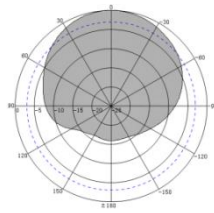


Electrical Specifications

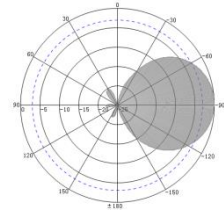
Frequency	902-928MHz
Gain	6dBi
Beam width	Hor: 105° Ver: 95°
Polarization	Circular
VSWR	≤1.4
Impedance	50Ω
Maximum power	100W
Lightning protection	DC Ground
Connector	SMA-male

Mechanical Specifications

Dimension	104*104*11.5mm
Net weight	0.1kg
Packing size	15.5*15.5*3.5cm
Gross weight	0.15kg
Radome material	PCB
Radome colour	Green
Operating temperature	-20-60℃
Waterproof Rate	-



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Manufacturer: Shenzhen RoyalRay Science and Technology Co., Ltd

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