

# RiTab-10T1

10" Semi-Rugged Tablet

## Quick Reference Guide

2<sup>nd</sup> Ed – 01 May 2017

### Copyright Notice

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## 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.

### FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and consider removing the no-collocation 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.

### Caution!

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

This equipment should be installed and operated with a minimum distance of 0mm between the radiator and your body.

## Canada Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and

- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage;  
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

"This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 0mm between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 0mm entre le radiateur et votre corps."

**This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to the electronic user's manual.**

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## **RiTab-10T1**

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As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into body, or (b) support or sustain life and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

### **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 RiTab-10T1
- 1 x 19V Adapter
- 1 x Power Cord




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

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## 1.3 System Specifications

<b>System</b>	
<b>Processor</b>	Intel® ATOM™ Z3735F 1.33GHz Processor
<b>System Memory</b>	Onboard 2GB DDR3L
<b>Storage</b>	Onboard 32GB eMMC, Optional 64GB
<b>Operation System</b>	Windows 10 (32 bit) / Android 4.4.4 (64 bit)
<b>Display &amp; Touchscreen</b>	
<b>LCD Size</b>	10.1"
<b>Display Type</b>	WXGA
<b>Resolution</b>	1280x800
<b>Luminance</b>	350 cd/m <sup>2</sup>
<b>Touch Type</b>	10 Points Projective Capacitive
<b>Wireless Communication</b>	
<b>WLAN</b>	802.11 b/g/n
<b>Bluetooth</b>	Bluetooth 4.0 Dual mode
<b>Ethernet Chipset</b>	2 x Intel I211AT 10/100/1000 Base-Tx Gbe Compatible
<b>Data Collection</b>	
<b>Camera</b>	5MP Rear Camera With Auto Focus
<b>NFC</b>	ISO/IEC 14443 A/B, 15693/18092 Support MIFARE and Felica Specifications
<b>Barcode Scanner</b>	Optional 2D Barcode Scanner
<b>Smart Card Reader</b>	Optional Smart Card Reader
<b>MSR</b>	Optional Magnetic Stripe Reader
<b>System I/O</b>	
<b>I/O Connectors</b>	1 x Audio Jack 1 x USB 2.0 Type A 1 x micro SD 1 x DC Jack 1 x Micro HDMI Output 1 x Micro SIM Slot
<b>System Control</b>	
<b>Control Buttons</b>	1 x Power Button 1 x G Sensor Lock Button 2 x Barcode Trigger
<b>LED Indicator</b>	1 x Power/Battery
<b>In-Box Accessory</b>	
<b>Accessory</b>	+19V 40W Power Adaptor Power cord

## RiTab-10T1

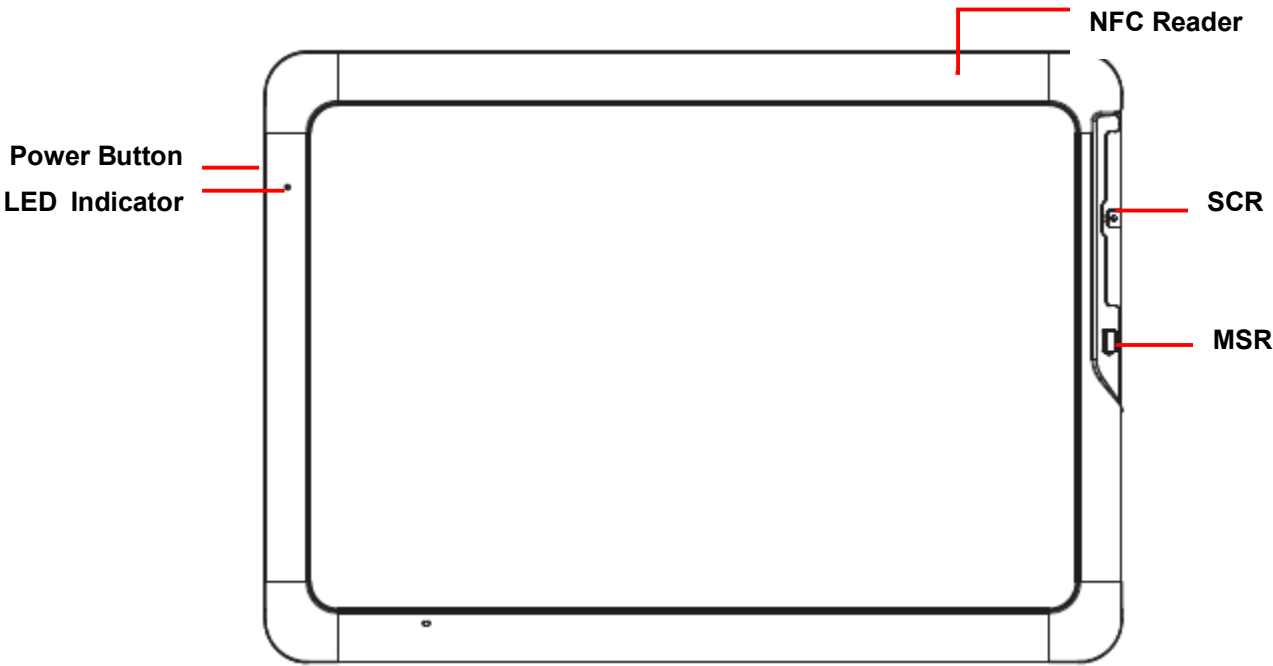
Power Requirement	
Power Connector	DC Jack
Power Requirement	+19V
Battery	Hot-Swappable 27.75W Li-Polymer Battery (3S1P) Internal 3.7W Li-Polymer Battery (2S1P)
Battery Operating Time	8 Hours
Adaptor	Input: 100~240Vac/50~60 Hz Output: 40W Adaptor (19VDC@2.1A) 65W Adaptor (19VDC@3.42A)
Mechanical & Environmental	
Construction	Rubber + Plastic
Dimension	281.9mm x 201mm x 20.8mm
Weight	1Kg
Operating Temperature	0°C~40°C (32°F~104°F)
Storage Temperature	-10°C~60°C (14°F~140°F)
Operating humidity	0%~90% Relative Humidity, Non-Condensing
IP Rating	IP54
Vibration Test	MIL-STD-810G Method 514.6 Procedure 1
Shock Test	MIL-STD-810G Method 516.6 Procedure 1
Drop	4-Feet Drop on Concrete Floor, MIL-STD-810G 516.5 Procedure VI
Certifications	
Certification Information	CE, FCC Class B



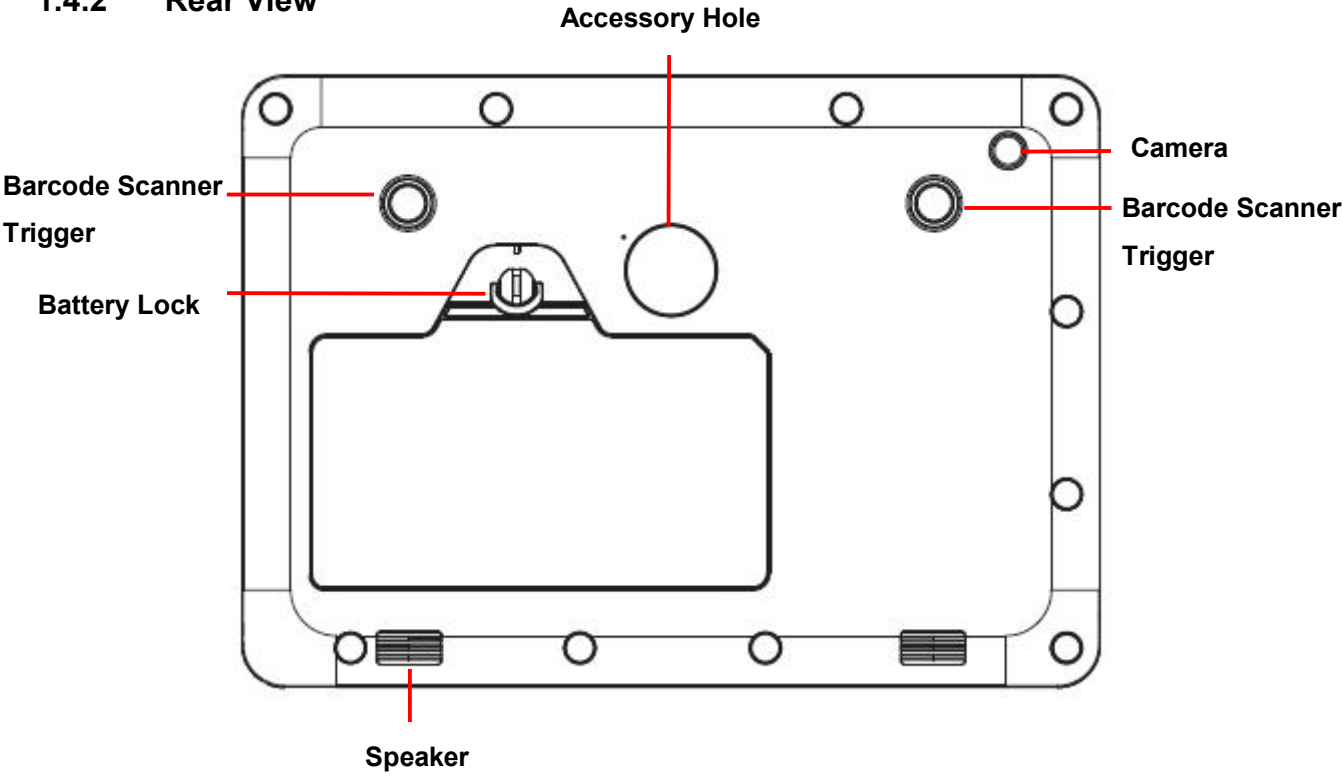
**Note:** Specifications are subject to change without notice.

1.4 System Overview

1.4.1 Front View

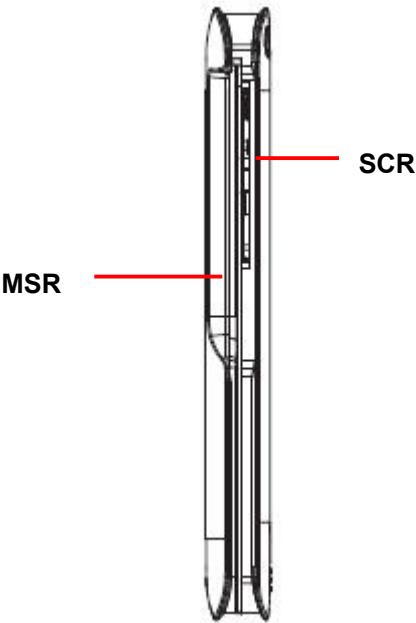


1.4.2 Rear View

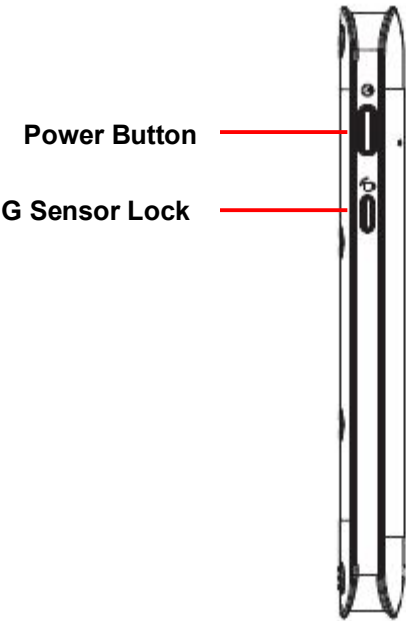


RiTab-10T1

1.4.3 Right Side

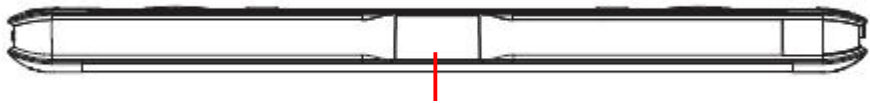


1.4.4 Left Side



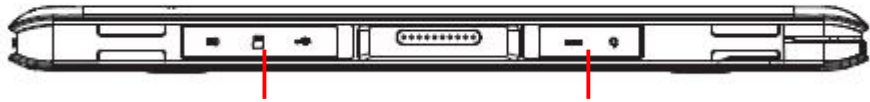
Power Button Control Mode	
Time	Function
1 Sec.	Power On
4 Sec.	ForcedPower Off
1 Sec.	Suspend
1 Sec.	Resume
7 Sec.	EC Reset

1.4.5 Top View



Barcode Scanner

1.4.6 Bottom



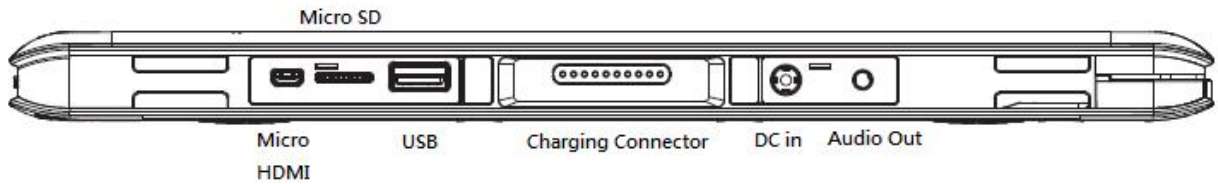
I/O

(See 1.4.7)

I/O

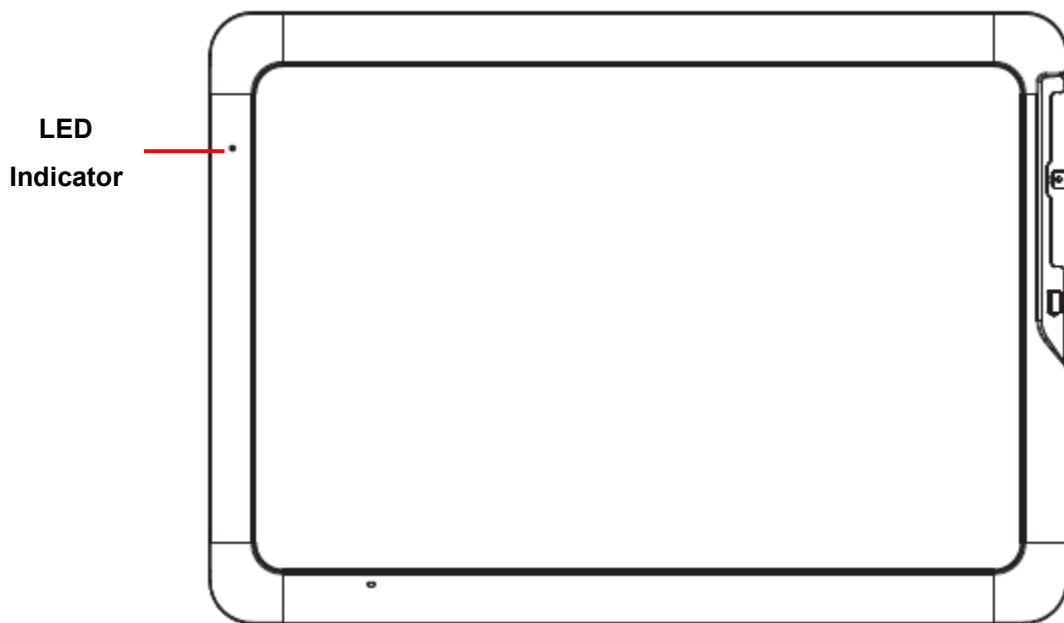
(See 1.4.7)

1.4.7 I/O Interface



Connectors		
Label	Function	Note
Micro HDMI	Micro HDMI Connector	
Micro SD	Micro SD Card Slot	
USB	1 x USB 2.0 Type A	
Docking Connector	Docking Station Connector	
DC In	DC Power-In Connector	
Audio Out	Audio Connector	

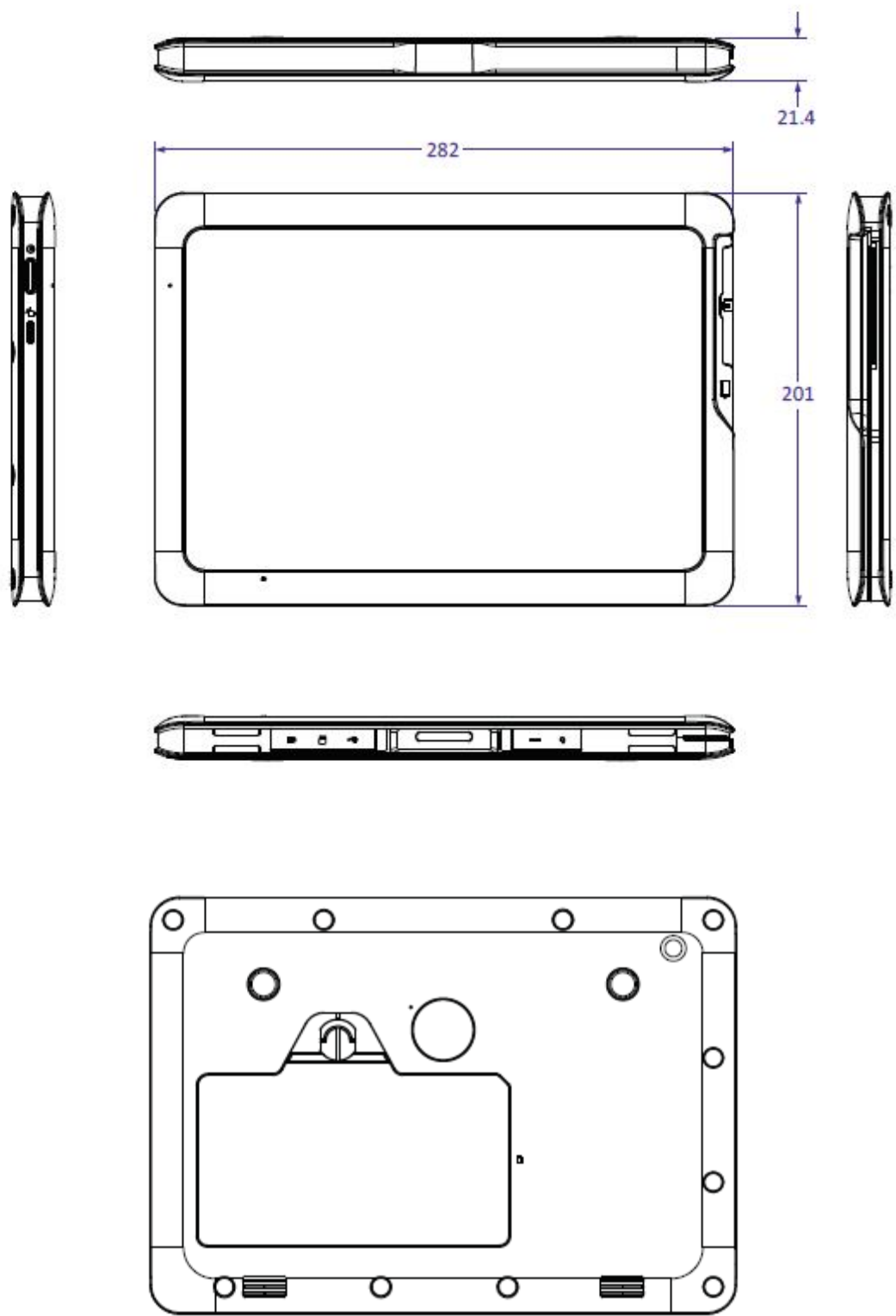
### 1.4.8 LED Indicator



Status	Power Off	Sleep Mode	Power On (Main Battery Capacity)
Not Charging	LED Off	LED Off	21% ~ 100% LED Off
			11% ~ 20% Red, Blinking: ON 0.5sec., OFF 2 sec.
			4% ~ 10% Red, Blinking: ON 0.5 sec., OFF 1 sec.
Charging	Amber	Amber	Amber
Charging Finished w A/C	Green	Green	Green

1.5 System Dimensions

1.5.1 RiTab-10T1



(Unit: mm)

## 2. Hardware Configuration

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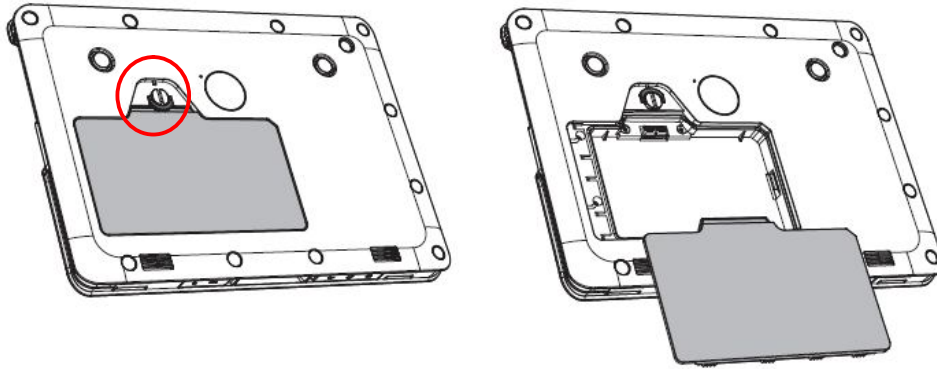


**Note:** If you need more information, please visit our website:

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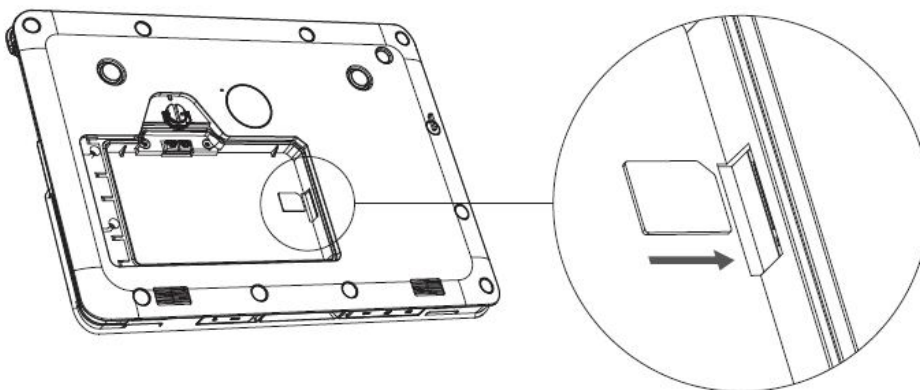
## 2.1 Battery Removal/Change

Rotate the battery lock to remove/change the battery.



## 2.2 Inserting SIM Card

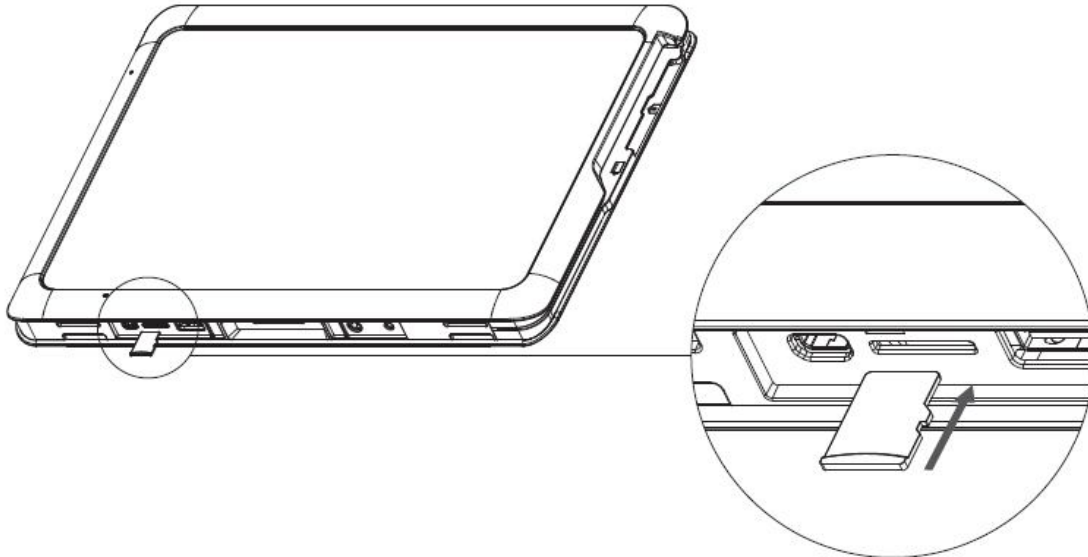
SIM card slot is located inside the battery bay. Remove the battery before inserting the SIM card in the direction shown as below.



**NOTE: Cellular function is only available when 3G module is installed.**

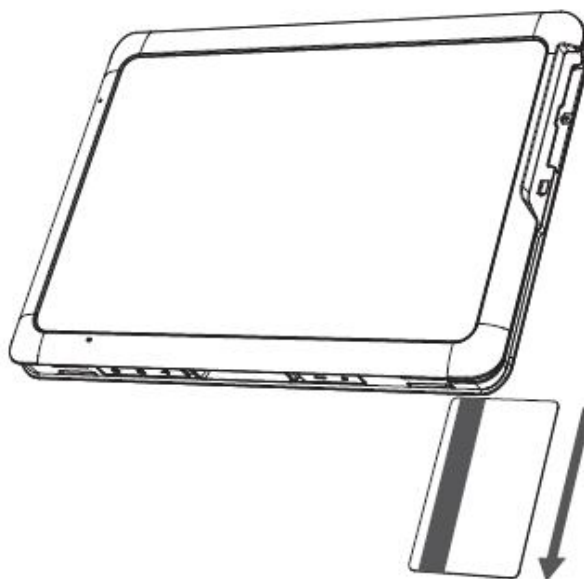
## 2.3 Inserting Micro SD Card

Push the Micro SD card into the slot. To remove the Micro SD card, simply push the card again and it will pop out automatically..



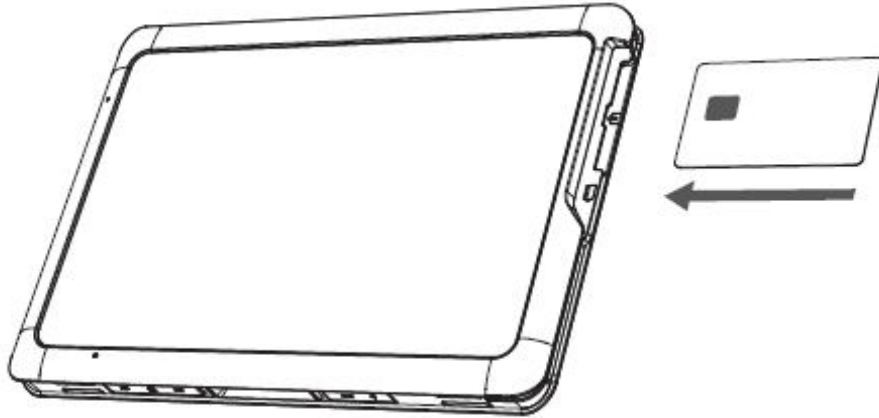
## 2.4 MSR (Optional)

The Magnetic Strip Reader is located at the right side of RiTab-10T1 and is used in the direction shown as below.



## 2.5 SCR (Optional)

The Smart Card Reader is located at the right side of RiTab-10T1 and is used in the direction shown as below.



## 2.6 Barcode Scanner (Optional)



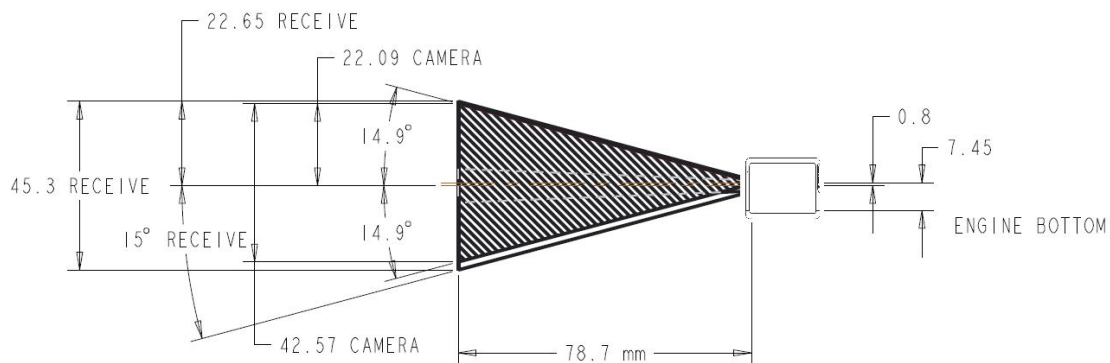
### 2.6.1 Barcode Scanner Specifications

Performance	
<b>Sensor</b>	CMOS sensor with rolling shutter and 640*480pixel resolution.
<b>Illumination &amp; Aiming</b>	White LED Illumination; Aimer: Red LED Dot
<b>Typical Frame Rate</b>	30 fps
<b>Motion Tolerance</b>	Up to 100 cm/s (4 in/s) for 13 mil UPC at optimal focus
<b>Field of View</b>	Horizontal Field Angle: 37.8°, Vertical Field Angle: 28.8°
<b>Scan Angles</b>	Tilt: 360°, Pitch: +/- 45°, Skew: +/-45°
<b>Symbol Contrast</b>	35% minimum reflectance
<b>Symbologies</b>	Aztec Code, Codabar, Codablock F, Code 11, Code 32(PARAF) Code 128, Code 2 of 5, Code 39, Code 93, Data Matrix, EAN/JAN-13, EAN/JAN 8, EAN-UCC Composite Codes, EAN-UCC Emulation, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MaxiCode, MicroPDF417, MSI, PDF417, QR Code, GS1 DataBar, TCIF Linked Code 39, UPC-A, UPC E, RSS

## RiTab-10T1

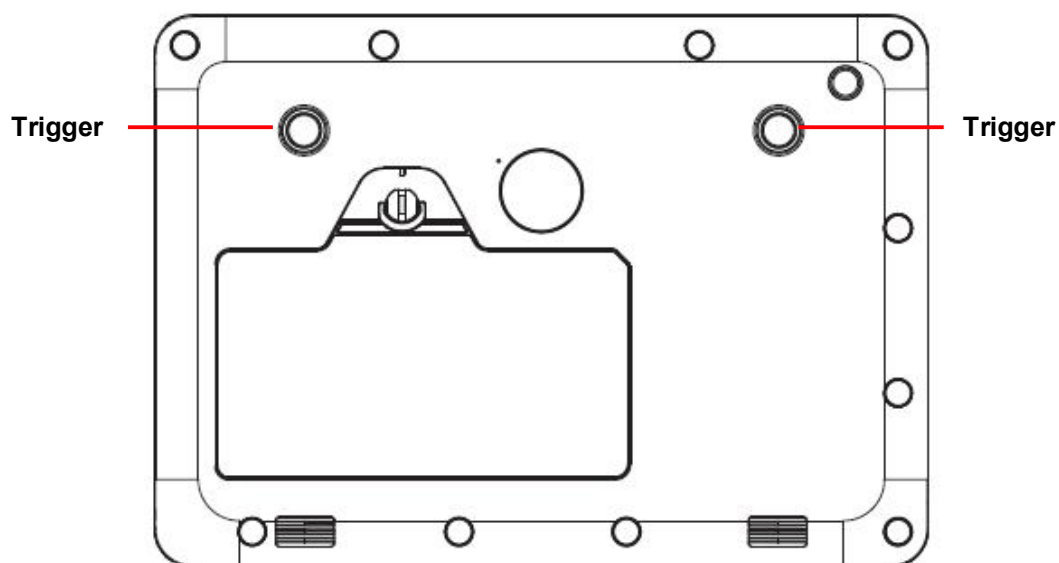
	Expanded , RSS Limited , RSS-14 , Chinese Sensible(Han Xin) code , Codablock A , UPC-A/EAN-13 with Extended coupon Code , Coupon GS1 , GS1codebar
<b>Mechanical/Electrical</b>	
<b>Dimensions</b>	Typical: 21.17mm(W) x 14.6mm(D) x 11.52mm(H) Maximum: 21.57mm(W) x 14.95mm(D) x 11.73mm(H)
<b>Interface</b>	12 pin non-zif connector
<b>Input Voltage</b>	232: 3.3VDC $\pm$ 5%, USB: 5.0VDC $\pm$ 5%,
<b>Typical Current Draw</b>	232: 3.3V input--Scan 310mA RMS, Idle 65mA RMS, Standby 3.5mA USB: 5V input---Scan 220mA RMS, Idle 60mA RMS, Standby 2.5mA

### 2.6.2 Barcode Scanner Distance



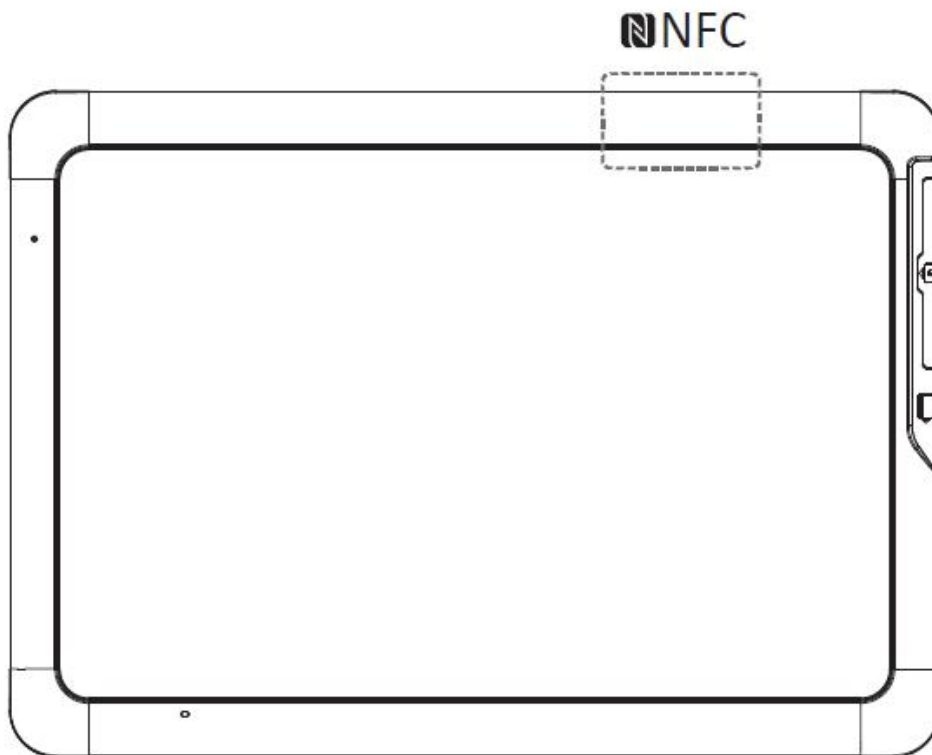
### 2.6.3 Barcode Scanner Trigger

Press the barcode scanner trigger to active the function if your RiTab-10T1 has built-in barcode scanner.



## 2.7 NFC

NFC is located at the top right of RiTab-10T1, indicated as below.



## 3. BIOS Setting

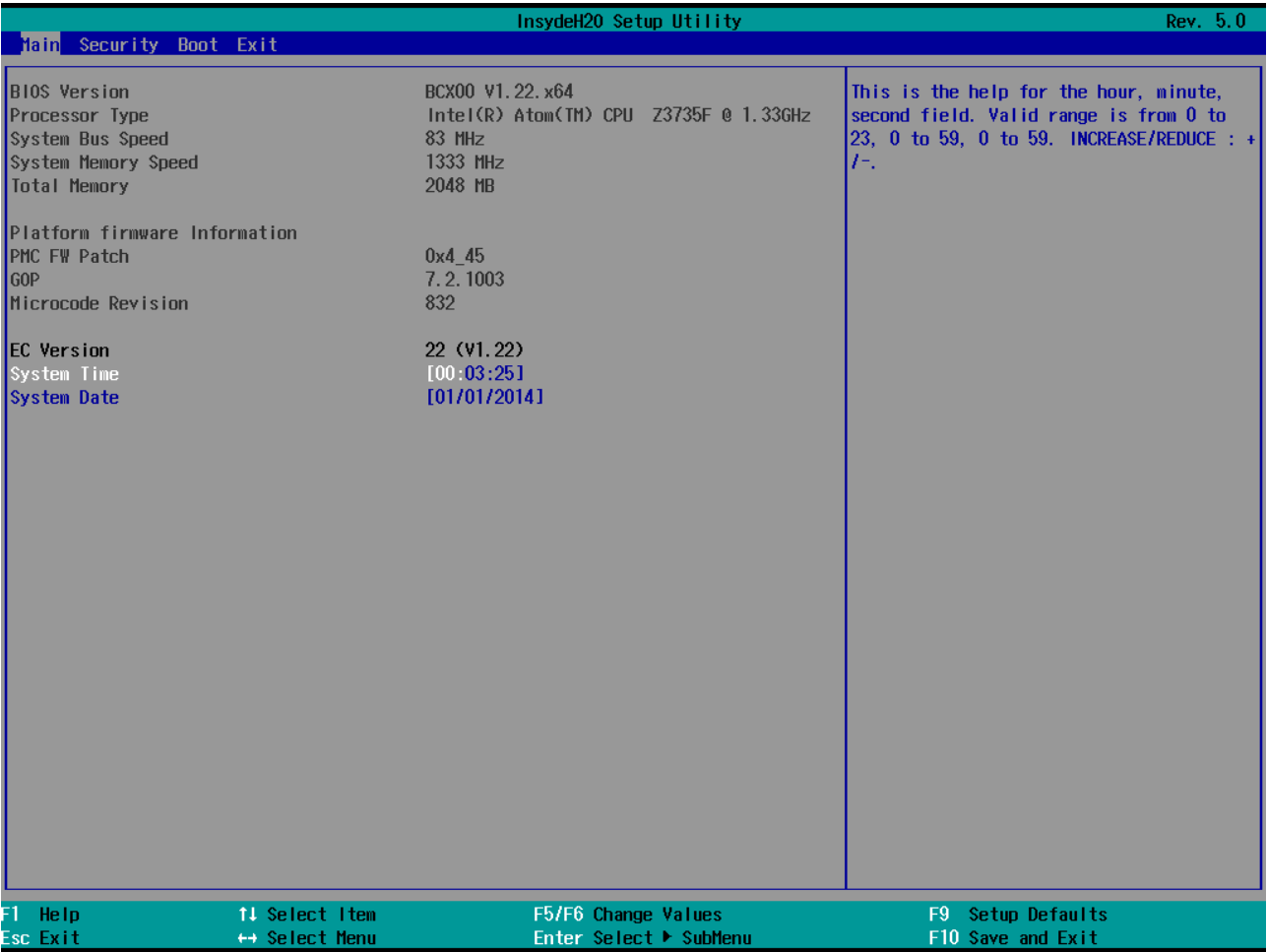


**Note:** If you need more information, please visit our website:

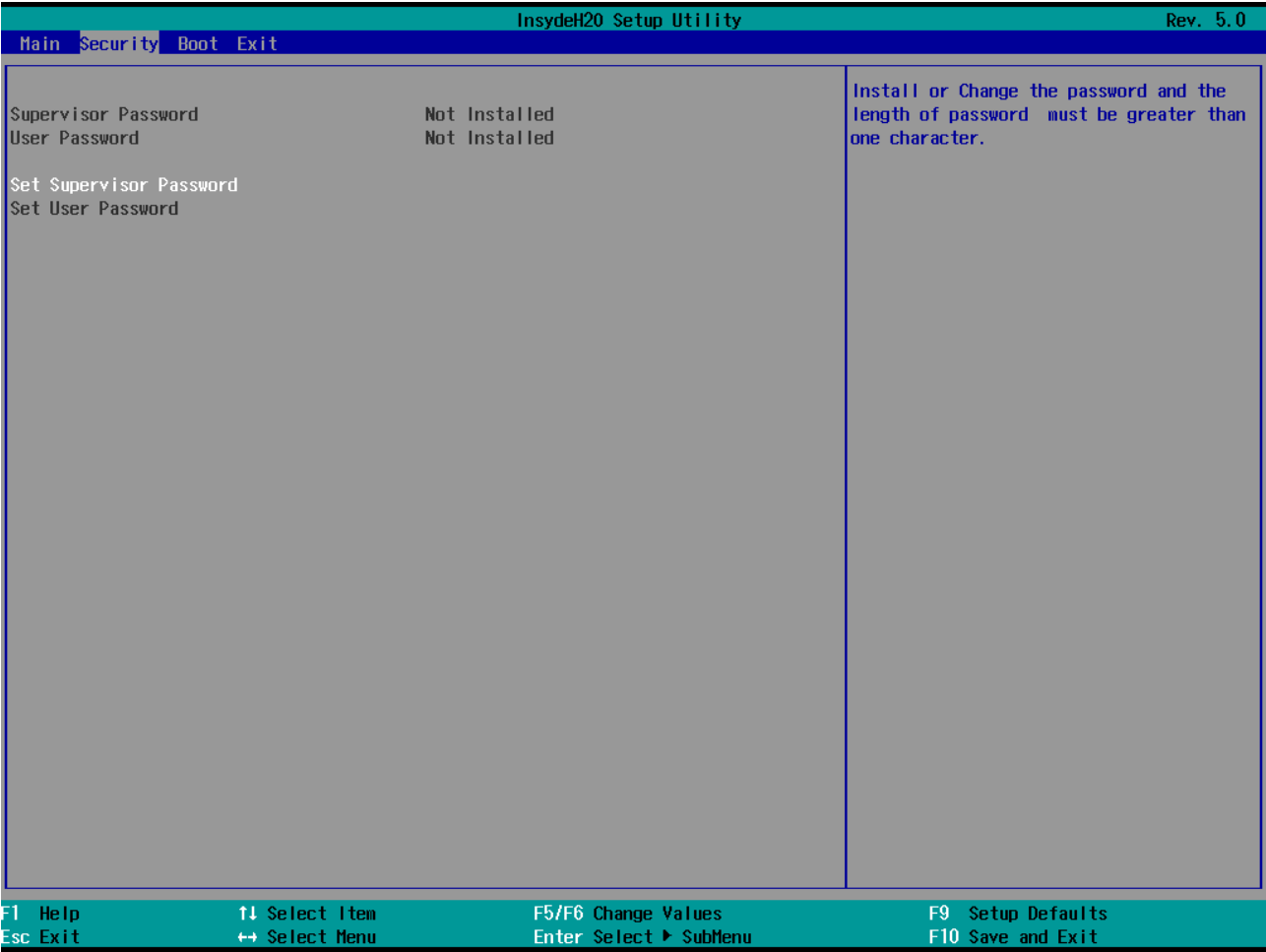
<http://www.avalue.com.tw>

Here illustrates the BIOS setting page for RiTab-10T1.

3.1 Main



3.2 Security



3.3 Boot

InsydeH20 Setup Utility

Rev. 5.0

MainSecurityBootExit

Network Stack<Disabled>

PXE Boot capability<Disabled>

Add Boot Options<Auto>

►EFI

Network Stack Support:

Windows 8 BitLocker Unlock

UEFI IPv4/IPv6 PXE

Legacy PXE OPROM

F1 Help

Esc Exit

↑↓ Select Item

↔ Select Menu

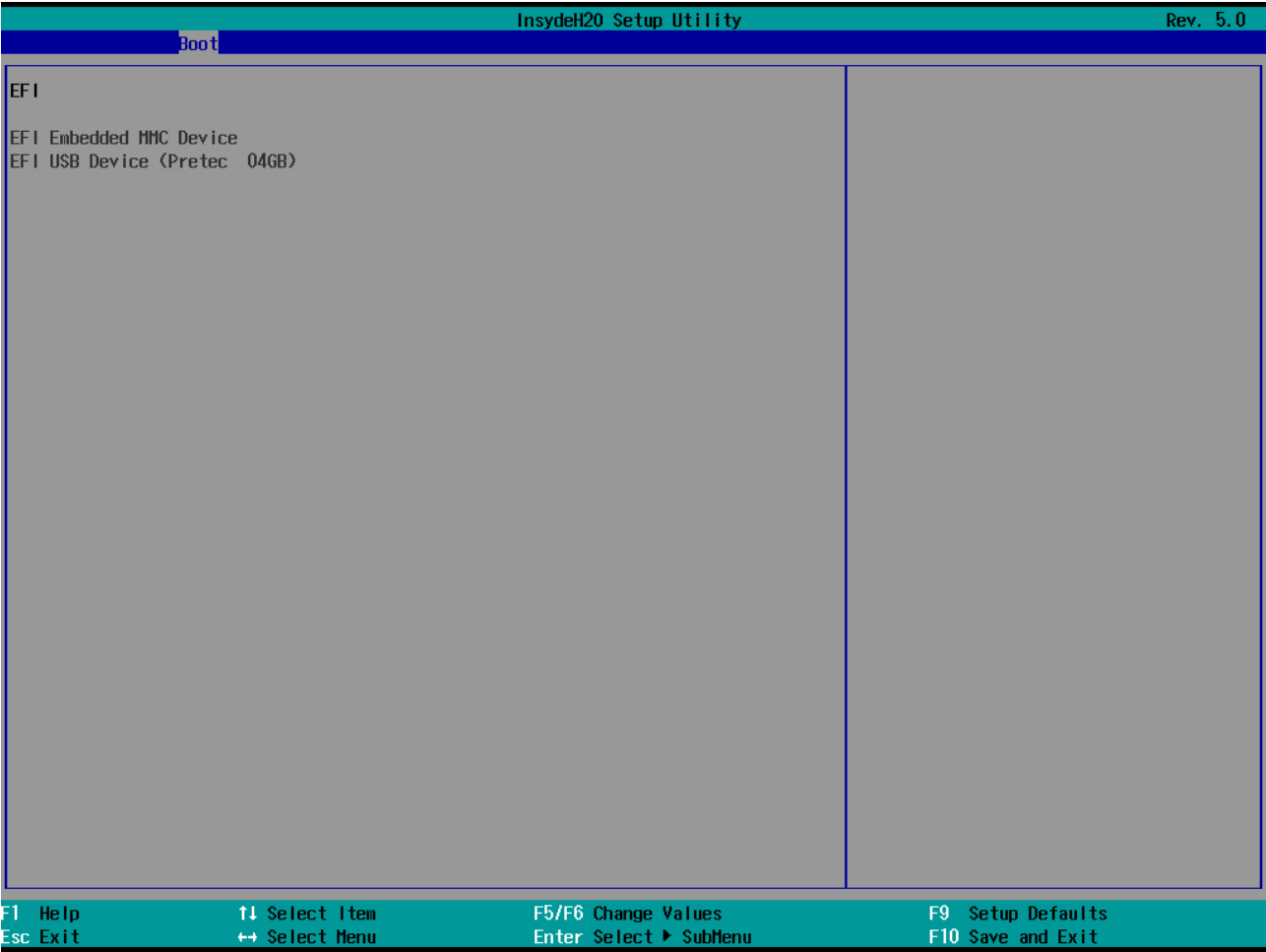
F5/F6 Change Values

Enter Select ► SubMenu

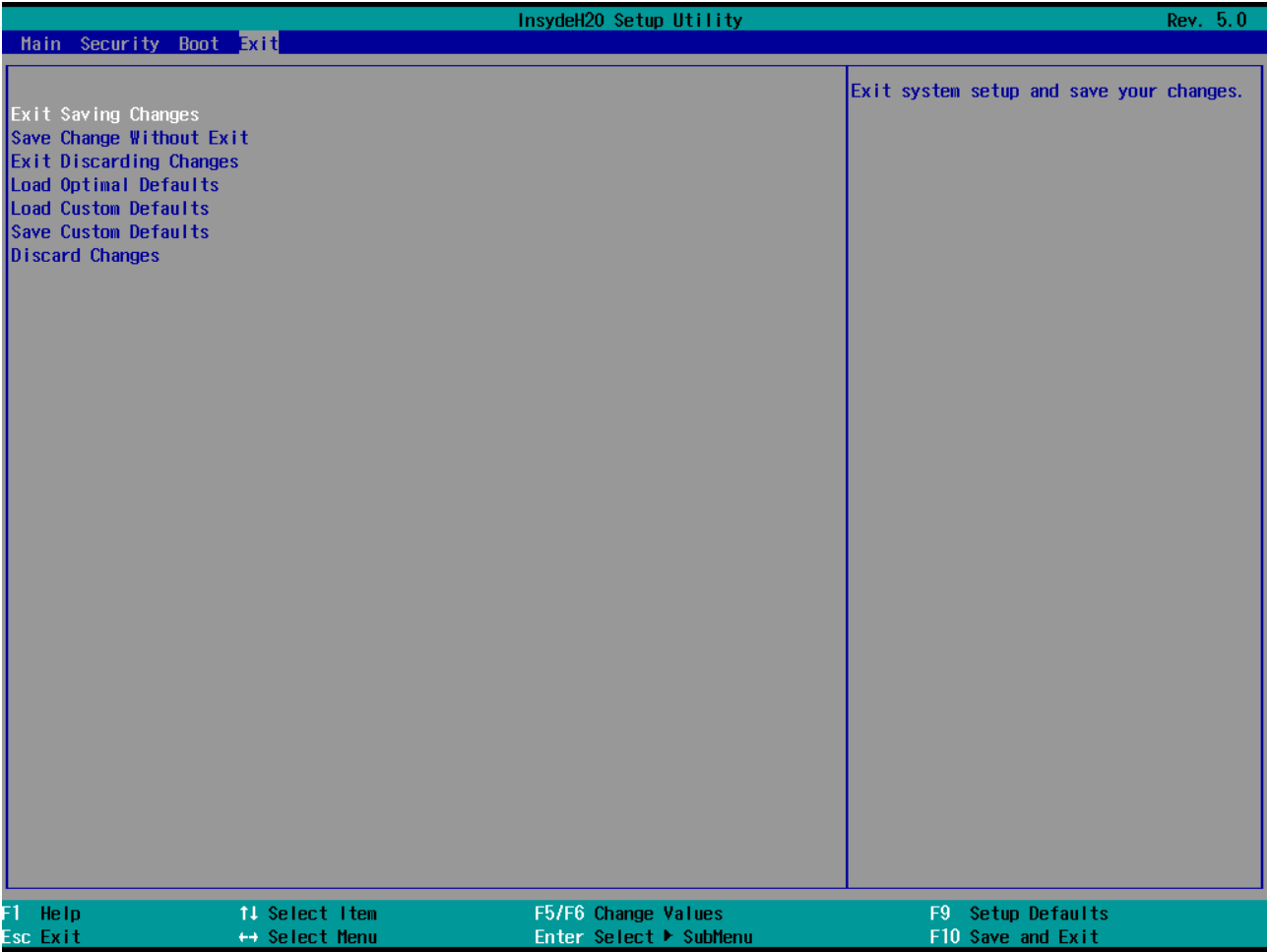
F9 Setup Defaults

F10 Save and Exit

3.4 EFI



3.5 Exit



## 4. Software

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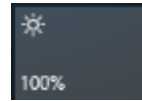
**Note:** If you need more information, please visit our website:


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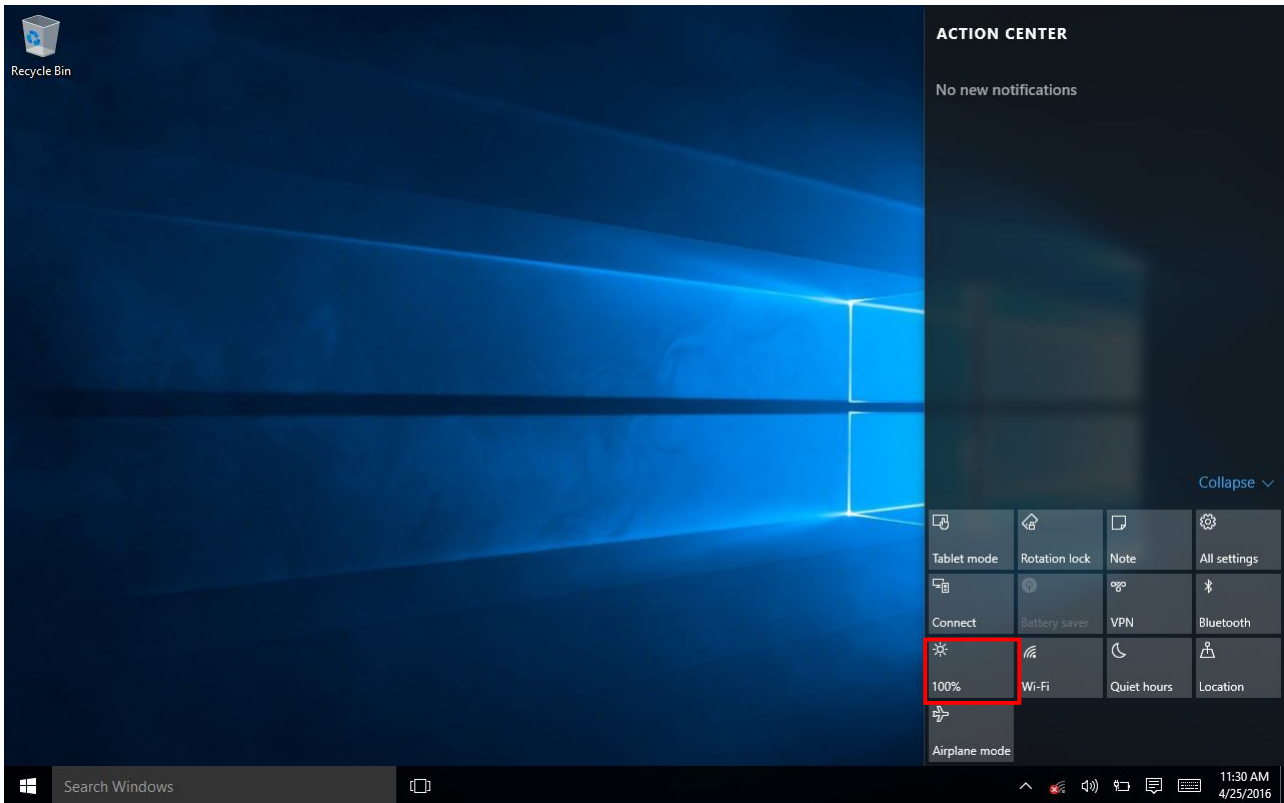
The software settings described below is under condition that the user is using a Windows 10 platform.

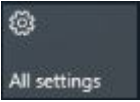
### 4.1 Adjusting LCD Brightness

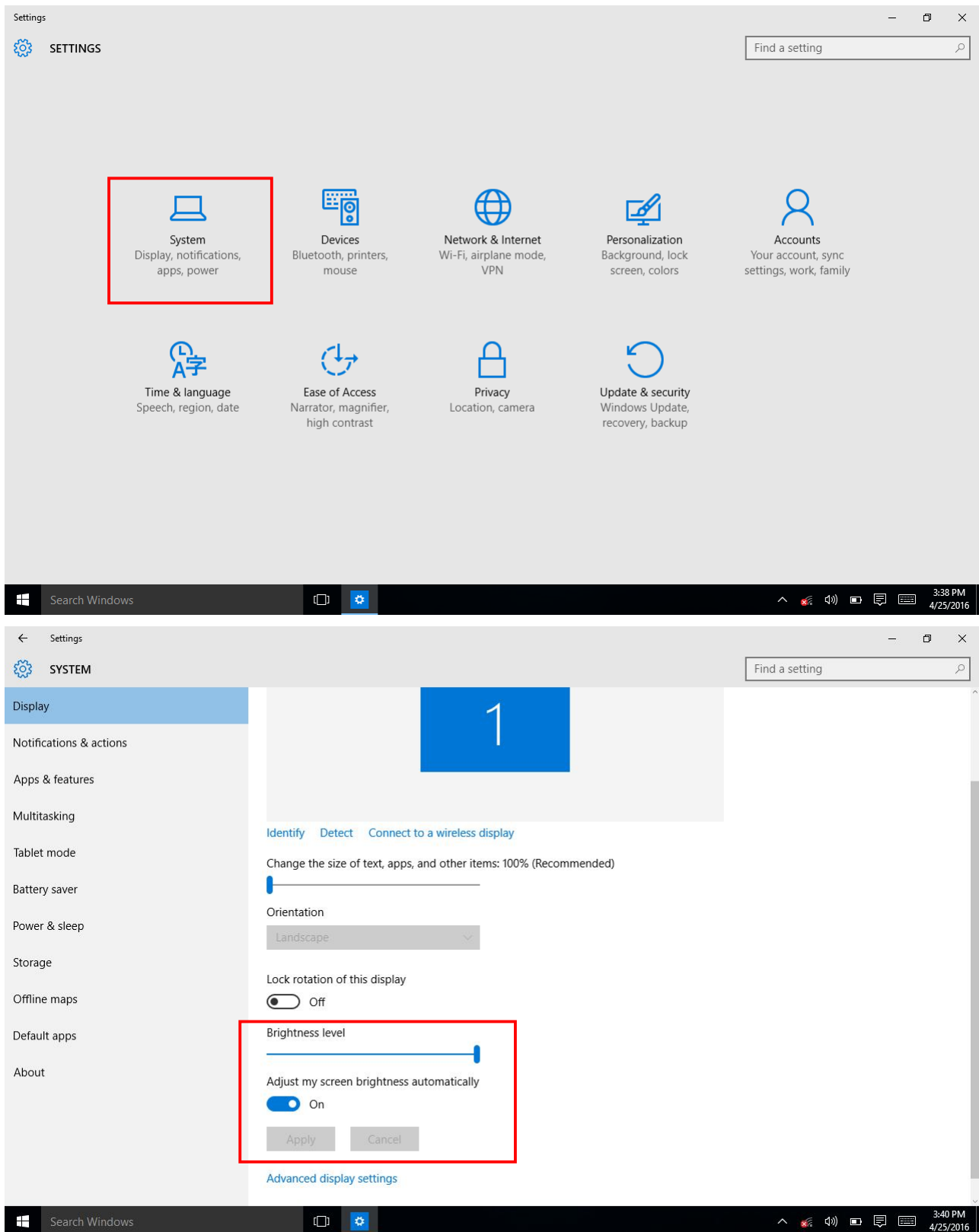
The *Brightness Control* is accessed by swiping the tablet screen from the far right to the left.




You will then have access to *Action Center* then choose . Tap on the icon to switch among 25%, 50%, 75% and 100%.

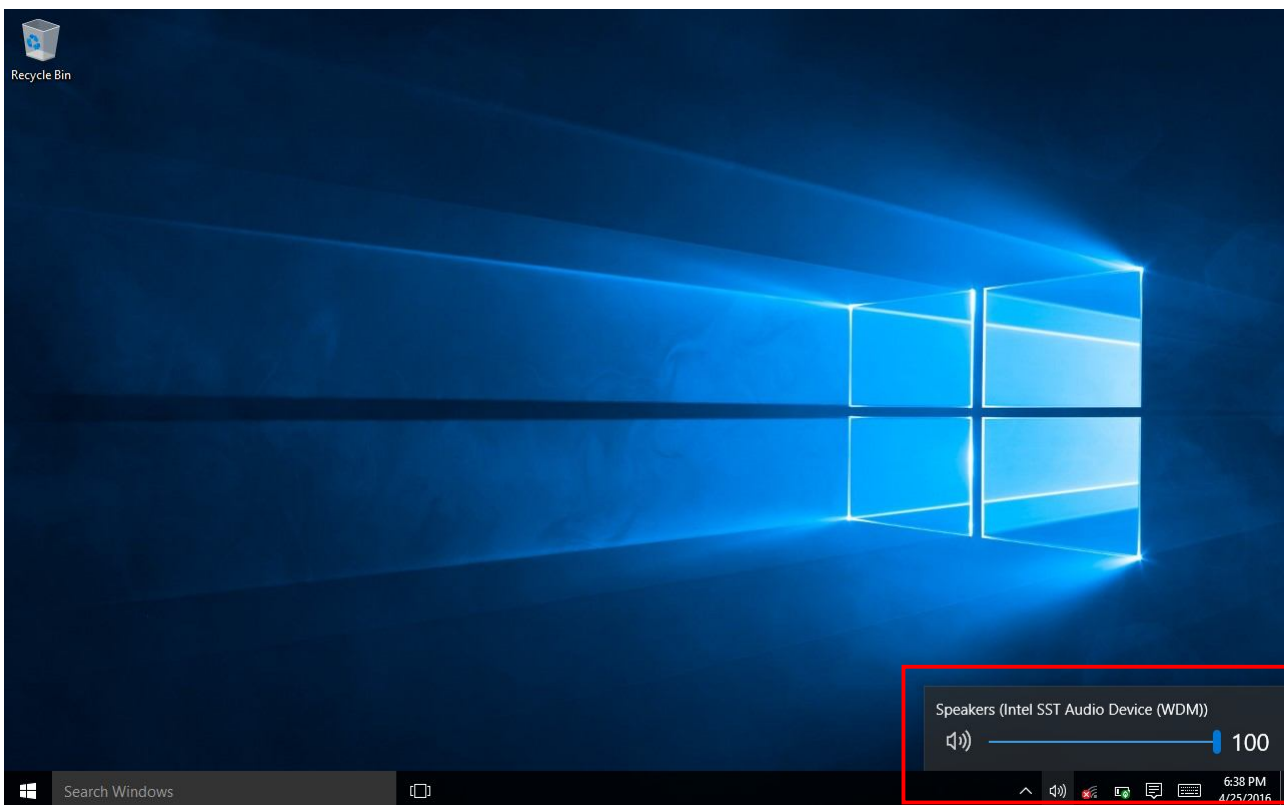
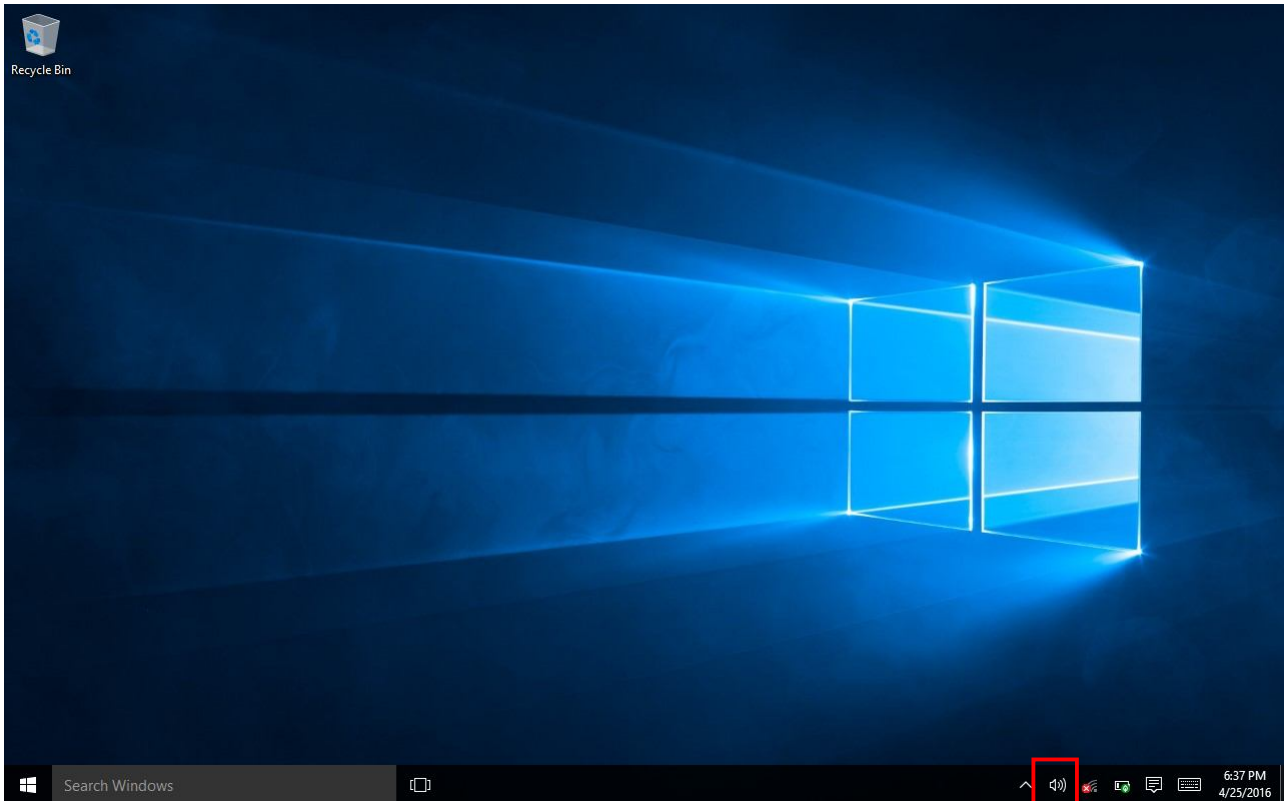


If you need to further adjust the display setting, tap on the  to access to *All Settings*.



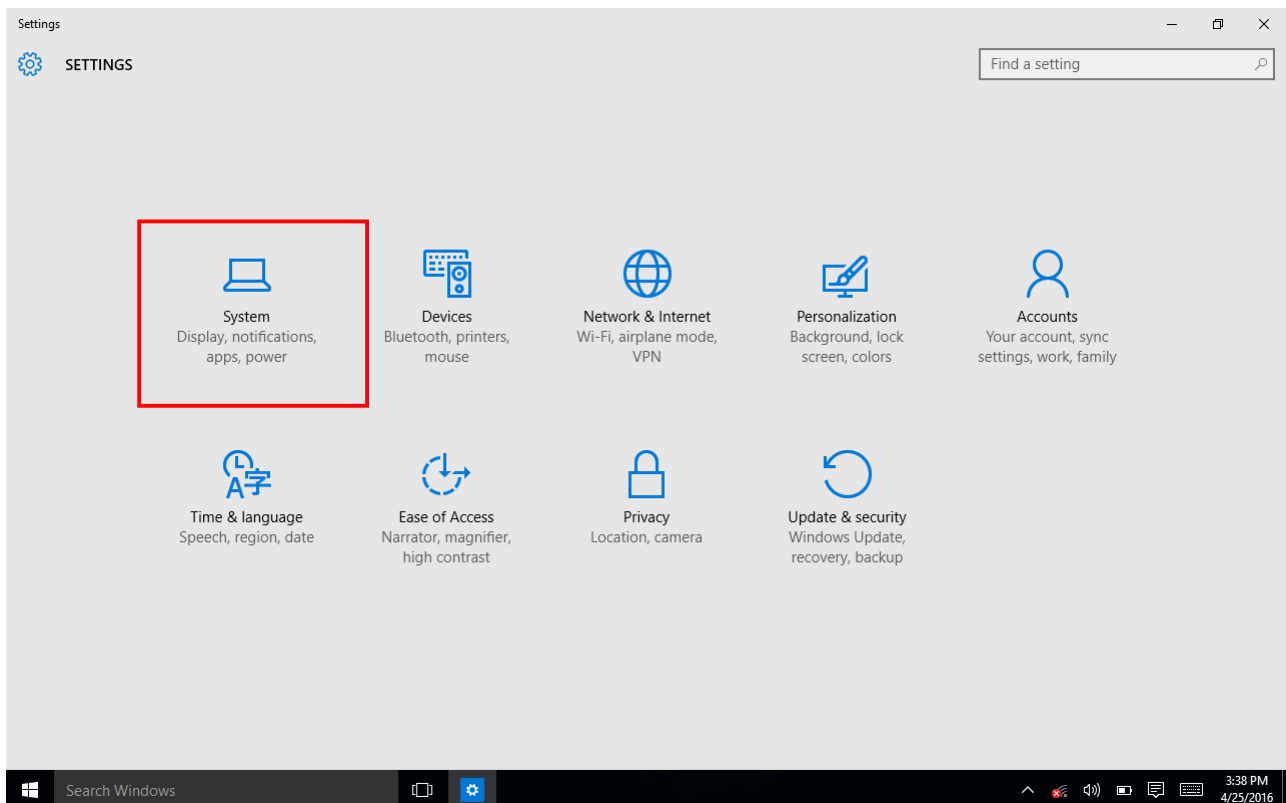
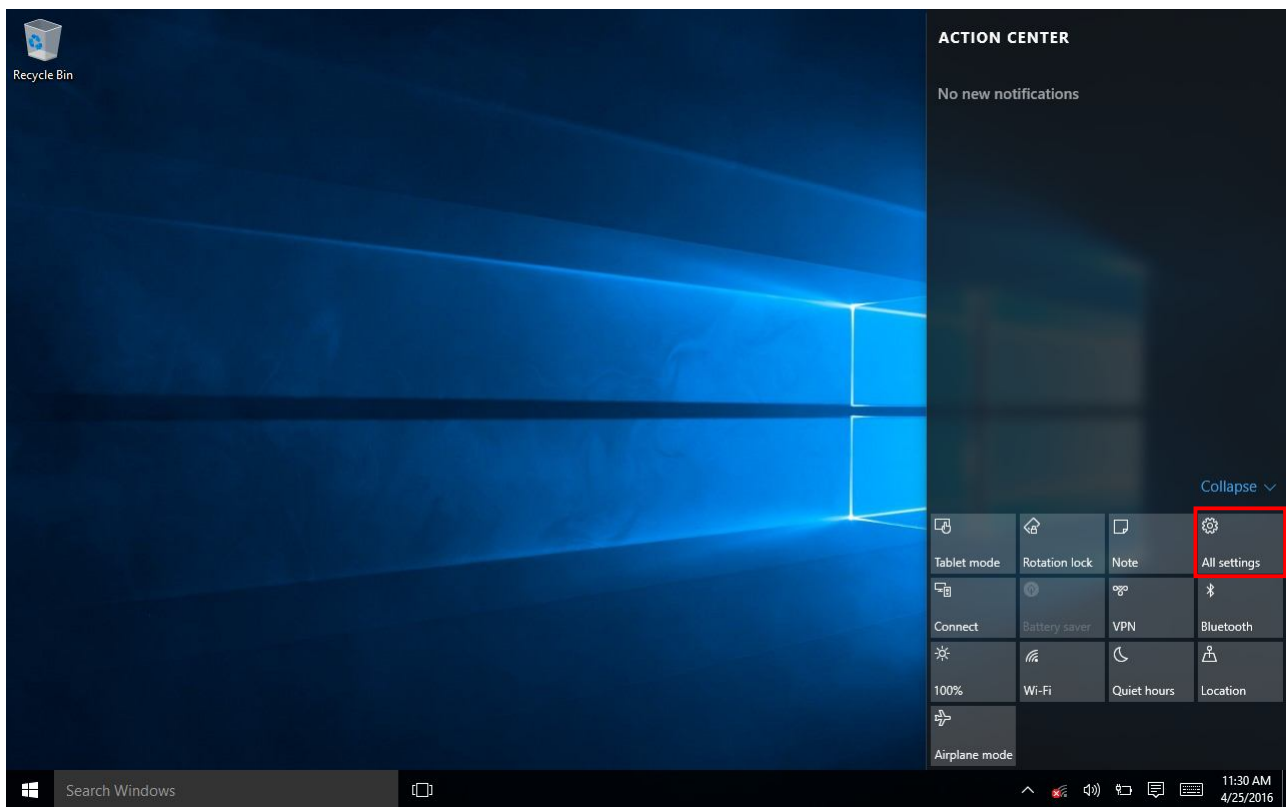
## 4.2 Adjusting Speaker Volume

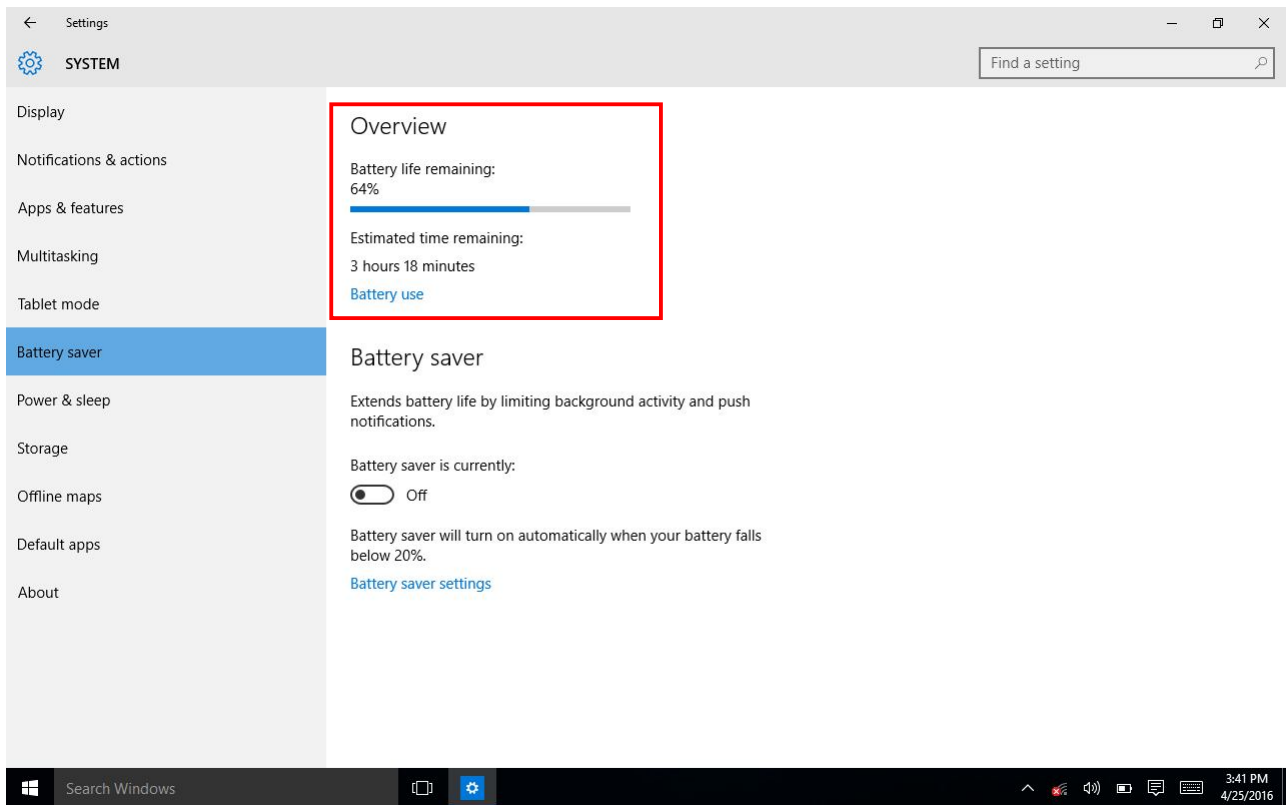
*Speak volume* adjustment can be accessed from the Desktop. Click on the  icon and you can adjust the volume by dragging the volume bar.



## 4.3 Battery Overview

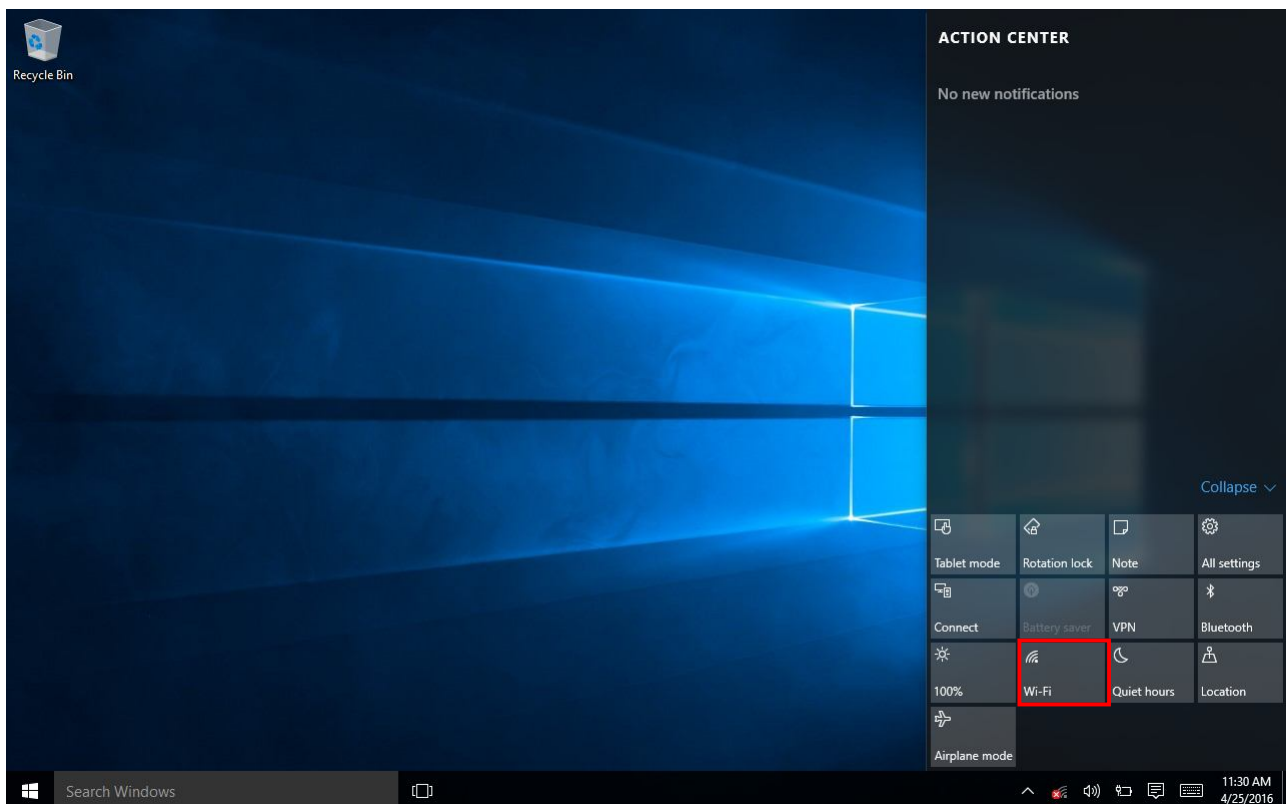
The *Battery Overview* can be accessed by pressing *All settings* -> *System*.





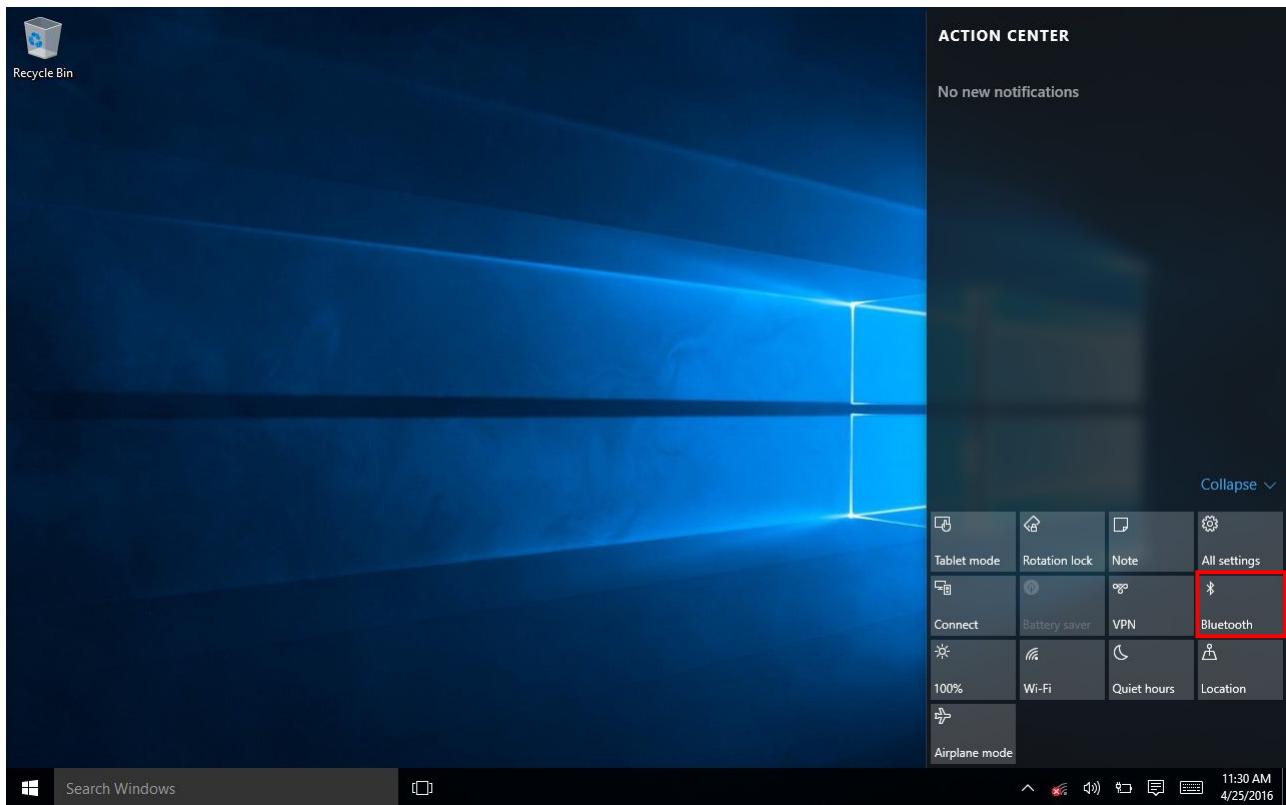
## 4.4 WiFi

Wifi connection can be turned on at *Action Center*.



## 4.5 Bluetooth

Bluetooth function can be turned on at *Action Center*.



## 5. Accessories

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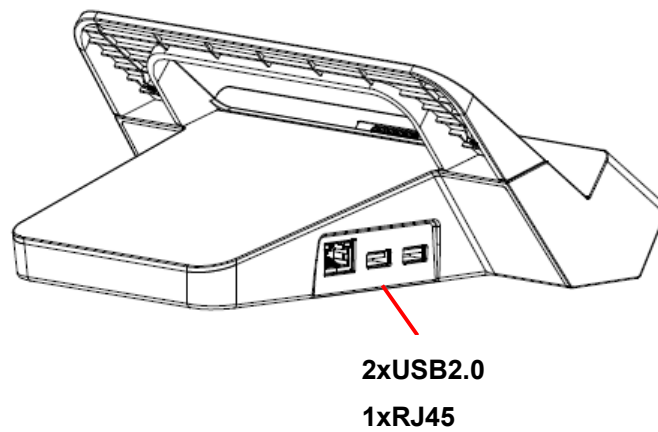
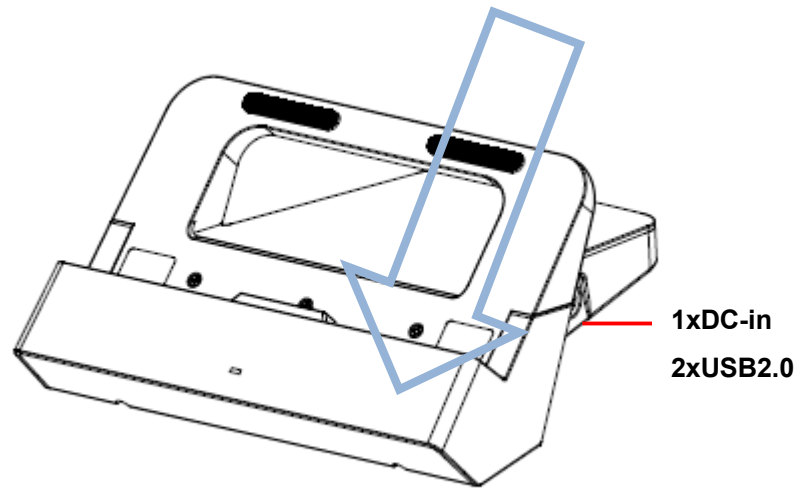


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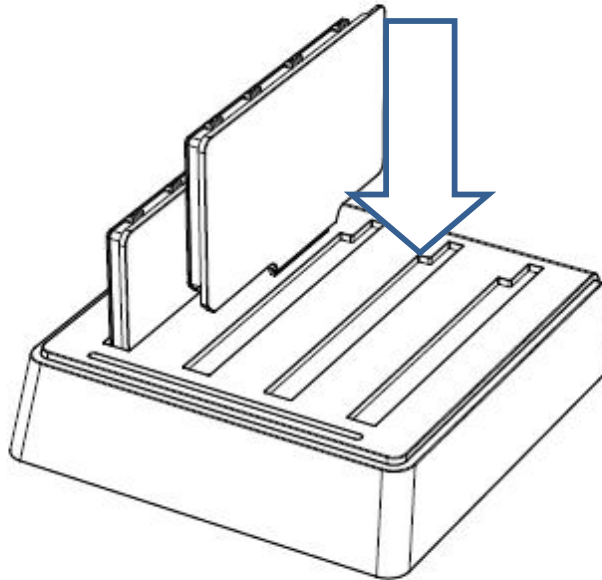
## 5.1 Desktop Cradle

Place RiTab-10T1 on the desktop cradle in the direction shown as below.



## 5.2 4-Bay Battery Charging Station

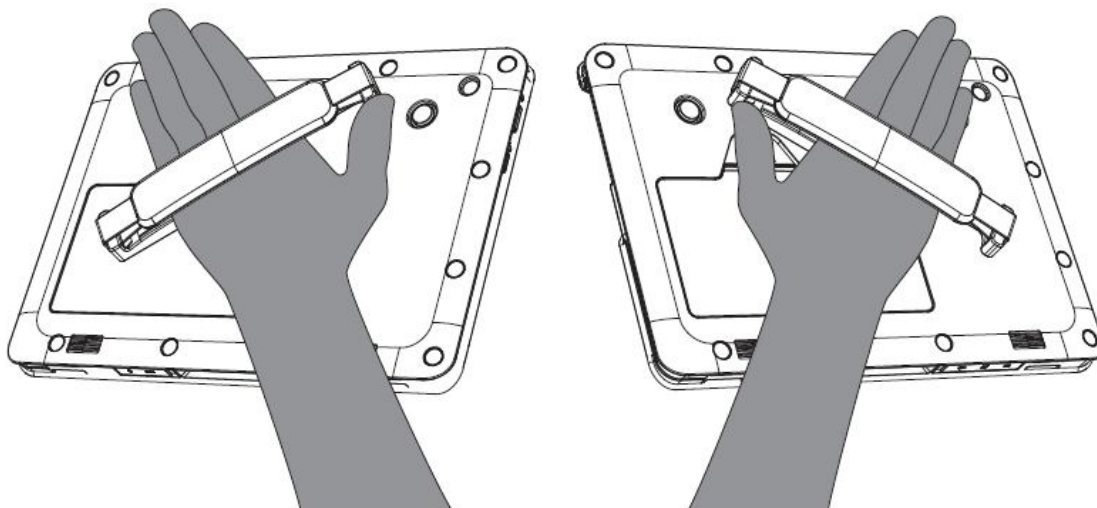
While charging the batteries on the charging station, place the batteries shown as below.



**NOTE: The adaptor for charging station is the same for RiTab-10T1**

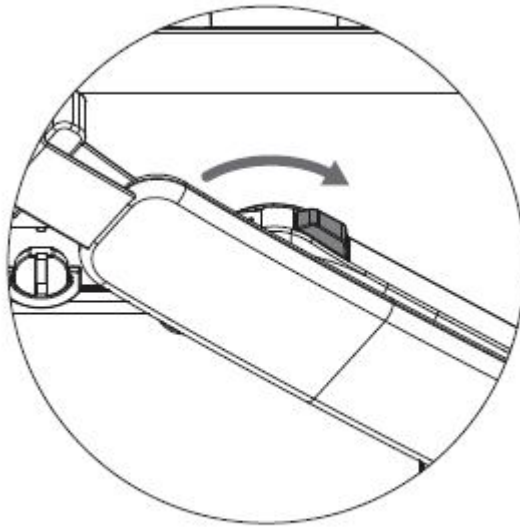
## 5.3 Handstrap

There are two ways of having the handstrap installed according to user's using habit shown as below.



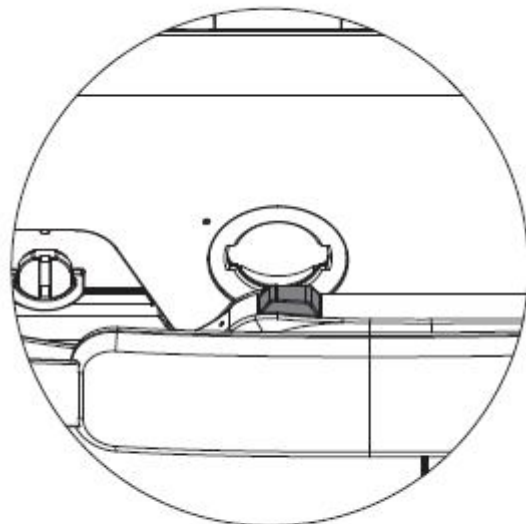
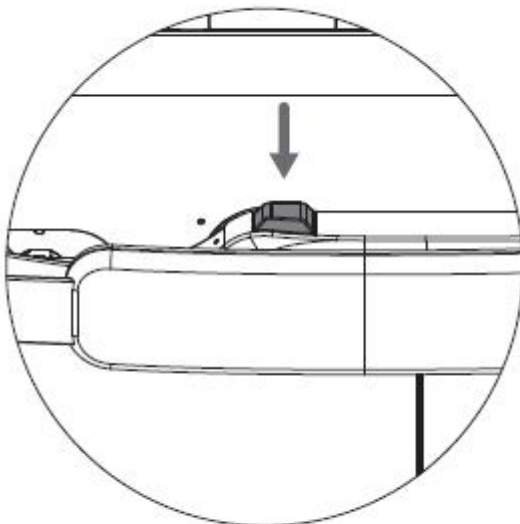
## RiTab-10T1

To install, insert the handstrap into the hole at the back of the tablet and turn the handstrap clockwise to lock the handstrap.



**Lock**

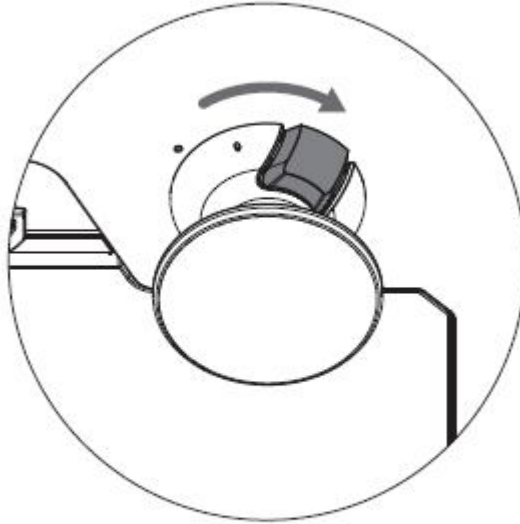
To remove the handstrap, turn the handstrap counter-clockwise into horizontal, then press the button on the handstrap and remove.



**Release**

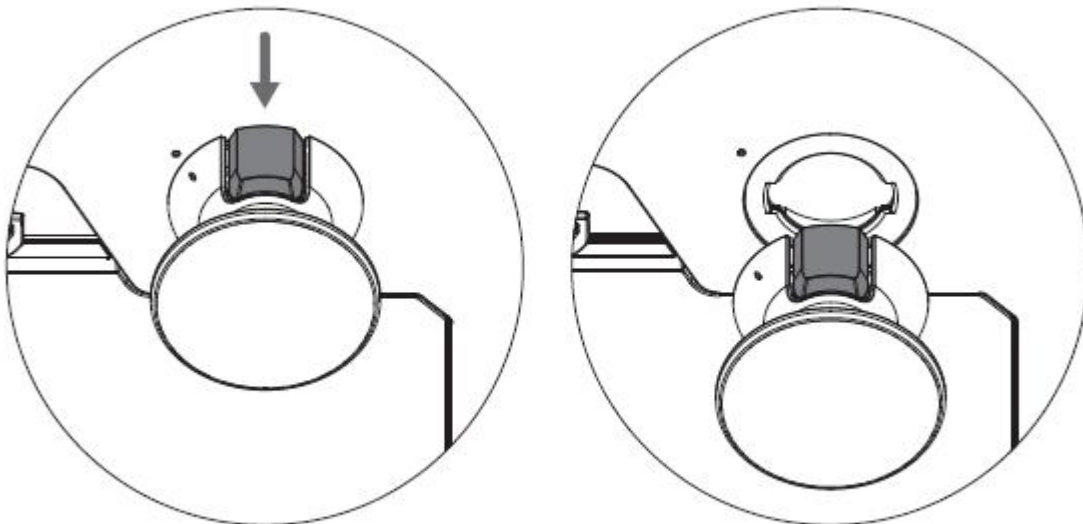
## 5.4 Mushroom Head Handle

To install the handle, insert it into the hole at the back of RiTab-10T1 and turn the handle clockwise to lock it.



**Lock**

To remove, turn the handle counter-clockwise, press the button then remove from the tablet.



**Release**

## 5.5 Shoulder Strap

