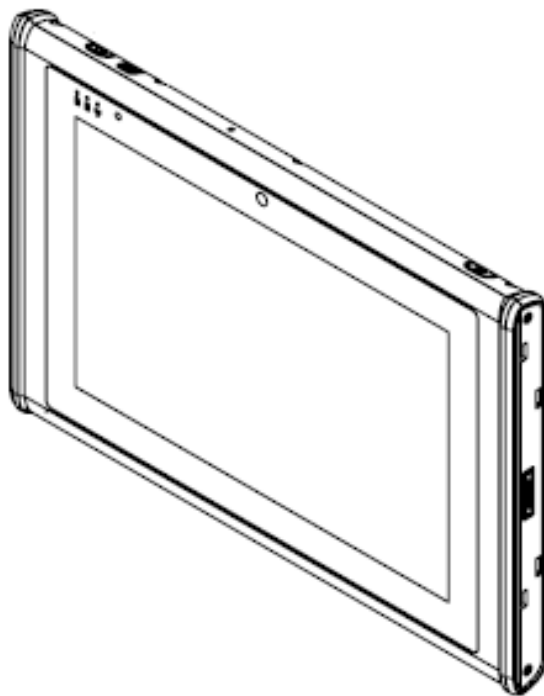


Mobile Computer MIT-W101-A



User Manual

MIT-W101-A

Ver 1.0

Copyright

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Acknowledgements

All other product names or trademarks are properties of their respective owners.

Intended use

The MIT-W101 is intended for integration with hospital system. It is designed for general purpose for hospital environment. For data collection and display for reference.

It shall not be used for life-supporting system.

Declaration of Conformity

CE Conformity Statement

Radio products with the CE alert marking comply with the R&TTE Directive (1999/5/EC) issued by the Commission of the European Community. Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 60950-1 (IEC60950-1) - Product Safety
- EN 300 328 Technical requirement for radio equipment
- ET S301 489 General EMC requirements for radio equipment

Products that contain the radio transmitter are labeled with CE alert marking and may also carry the CE logo.

MIT-W101-A User Manual

FCC Compliance 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;
2. This device must accept any interference received, including interference that may cause undesired operation.

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. 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 and correct the interference by one or more of the following measures:

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 computer technician for help

Warning! Any changes or modifications made to the equipment which are not expressly approved by the relevant standards authority could void your authority to operate the equipment.

Caution! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment for body-worn configuration in direct contact to the phantom.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

Technical Support and Assistance



1. Visit the Advantech website at <http://support.advantech.com> where you can find

Caution! Exposure to Radio Frequency Radiation.



The radiated output of this device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

MIT-W101-A User Manual I the latest information about the product.

2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:

- Product name and serial number
- Description of your peripheral attachments
- Description of your software (operating system, version, application software, etc.)
- A complete description of the problem
- The exact wording of any error messages

Safety Instructions

1. Read these safety instructions carefully.
2. Keep this user manual for later reference.
3. Disconnect this equipment from AC outlet before cleaning. Do not use liquid or spray detergents for cleaning.



4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a reliable surface during installation.

Dropping it or letting it fall could cause damage.

7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
8. Do not leave this equipment in an environment unconditioned where the storage temperature under -20°C or above 60°C, it may damage the equipment.
9. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
10. Place the power cord such a way that people cannot step on it. Do not place anything over the power cord. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product.
11. All cautions and warnings on the equipment should be noted.
12. If the equipment is not used for long time, disconnect it from the power source to avoid being damaged by transient over-voltage.
13. Never pour any liquid into ventilation openings. This could cause fire or electrical shock.
14. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
15. If any of the following situations arises, get the equipment checked by service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated into the equipment.
 - c. The equipment has been exposed to moisture.
 - d. The equipment does not work well or you cannot get it to work according to user manual.
 - e. The equipment has been dropped and damaged.
 - f. The equipment has obvious signs of breakage.
16. **CAUTION:** The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacture. Discard used batteries according to the manufacturer's instructions.
17. If your computer is losing time significantly or the BIOS configuration resets itself to the default, the battery may have no power.

Caution! 1. Do not replace battery yourself. Please contact a qualified technician or your retail provider.

2. The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended

by the manufacturer. Discard used batteries according to the manufacturer's instructions.

18. CLASSIFICATION:

Supply Class I adapter



No applied part

Continuous Operation

Not AP or APG category



19. Disconnect device: Appliance inlet.

20. Follow national, state or local requirements to dispose of unit.

21. Maintenance: to properly maintain and clean the surfaces, use only the approved products or clean with a dry applicator.

22. Contact information:

No.1, Alley 20, Lane 26, Rueiguang Road Neihu District, Taipei, Taiwan 114, R.O.C.

TEL: +886 2-2792-7818

23.



Medical Equipment

With Respect to Electric Shock,
Fire, and Mechanical Hazards Only,
In Accordance with UL 60601-1,
CAN/CSA C22.2 No. 601.1, and
IEC 60601-1

24. This equipment shall not be used as a life support system.
25. Accessory equipment connected to the analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e. IEC 60950 for data processing equipment, IEC 60065 for video equipment, IEC 61010-1 for laboratory equipment, and IEC 60601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard IEC 60601-1-1. Anyone who connects additional equipment to the signal input part or signal output part is configuring a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 60601-1-1. The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60XXX certified equipment outside of the patient environment. If in doubt, consult the technical services department or your local representative.
26. Users must not allow SIP/SOPs to come into contact with the patient at the same time.
27. The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70dB (A).
28. "WARNING - Do not modify this equipment without authorization of the manufacturer."
29. "WARNING - To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth."

30. WARNING: Please avoid having enclosure to contact with skin more than 1 minute.

31. CAUTION! This product: MIT-W101-A is only used with the qualified & certificated power adapter: SINPRO ELECTRONICS CO LTD, model MPU63A-107. Output: 18Vdc, 3.5A max

DISCLAIMER: This set of instructions is given according to IEC 704-1. Advantech disclaims all responsibility for the accuracy of any statements contained herein.



Battery Safety

RTC Battery Caution

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Do not place the battery incorrectly as this may cause danger of explosion.

Dispose of used batteries according to the manufacturer's instructions.

Do not dispose of batteries in a fire. They may explode. Check with local authorities for disposal instructions.

Battery Pack Caution

The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 40°C, or incinerate. Replace standard battery pack with Advantech MIT-W101-BATC Li-ion 11.1V 2860mAh. Use of another battery may present a risk of fire or explosion.

Dispose of used batteries according to local disposal regulations. Keep away from children. Do not disassemble and do not dispose of in a fire.

Battery Charge Notice

It is important to consider the environment temperature whenever you are charging the Lithium-Ion battery pack. The process is more efficient at normal room temperature or slightly cooler. It is essential that you charge batteries within the stated range of 0°C to 35°C. Charging batteries outside of the specified range could damage the batteries and shorten their charging life cycle.

Storage and Safety Notice

Although charge Lithium-Ion batteries may be left unused for several months, their

capacity may be depleted due to the buildup of internal resistance. If this happens they will require recharging prior to use. Lithium-Ion batteries may be stored at temperatures between -20°C to 60°C, however they may be depleted more rapidly at the high end of this range. It is recommended to store batteries within normal room temperature ranges.

Disposing of Batteries or Battery Pack.

Batteries, battery packs, and accumulators should not be disposed of as unsorted household waste. Please use the public collection system to return, recycle, or treat them in compliance with the local regulations.



Chapter 1 Ready to Go..... 11

1.1 Symbols Used in this Manual..... 13

1.2 Product Features..... 13

1.3 Package Contents..... 13

1.4 Optional Modules 14

1.5 System Configuration..... 14

1.6 Exploring the MIT-W101-A..... 16

1.6.1 Front View	16
1.6.2 Rear View	17
1.6.3 Right View.....	18
1.6.4 Left View	18
1.6.5 Top View	19
1.6.6 Bottom View	19
Chapter 2 Making Connections.....	20
2.1 Connecting the Power	21
2.2 Connecting to a Monitor.....	21
2.3 Connecting USB Devices	22
2.4 Connecting Headphones.....	22
2.5 Connecting a Microphone.....	23
Chapter 3 Turning On.....	24
3.1 Controlling the MIT-W101-A.....	25
3.1.1 Using the Touch Screen	25
3.1.2 Using the Tap Function.....	25
3.1.3 Using the Control Panel Buttons	25
3.1.4 Using the On-Screen Keyboard	26
3.1.5 Adjusting Screen Brightness	28
3.1.6 Adjusting the Volume.....	29
Chapter 4 Wireless Connections	33
4.1 Wi-Fi Connection.....	34
4.2 Bluetooth Connections	37
4.2.1 Setting Up Bluetooth	37
Chapter 5 Advance Setting	40
5.1 Checking Battery Status.....	41
5.2 Maintenance	41
5.2.1 Maintaining the Battery	41

5.2.2 Maintaining the LCD Display	42
5.2.3 Cleaning the MIT-W101-A	42
5.3 Trouble Shooting	42
Immunity test.....	44
Chapter 6 Dashboard Installation & Hotkey setting	46
6.1 Installation.....	47
6.1.1 Extract file “MIT-W101-Dashboard v1.0.0	47
6.1.2 Follow the procedure to install the dashboard	48
6.1.3 Install completed and re-start MIT-W101.....	50
6.2 Start to use	51
6.2.1 Click icon of “Advantech Control Center”	51
6.2.2 Barcode reader	51
6.2.3 MSR (enable with expansion module / MIT-W101-ACCEM000E).....	54
6.2.4 Smart Card (enable with Expansion module)	55
6.2.3 NFC.....	56
6.2.4 Camera.....	59
6.2.5 Brightness	60
6.2.6 Hotkey Setting.....	61
Appendix Specifications.....	63
A.1 Specifications.....	64
A.2 Optional Accessories	66
A.2.1 External Battery.....	66
A.2.2 Docking Station.....	67
A.2.3 Expansion Module	70
A2.3.1 Installing an Expansion module.....	71
A2.4 Rubber Bumpers.....	72
A2.4.1 Installing the Rubber Bumpers.....	72

A2.4.2 Removing the Rubber Bumpers	73
A.3 Installing an SSD.....	74
A.3.1.1 Inserting an SSD.....	74
A.3.1.2 Removing an SSD.....	76

Chapter 1 Ready to Go

Congratulations on your purchase of the MIT-W101-A Rugged Tablet PC. This product combines rugged design with reliable performance and powerful functionality to best suit all your needs, in a wide range of working conditions. This user manual outlines all you need to know to set up and use your MIT-W101-A. If you have any further questions or queries, contact our technical support team via our website: <http://www.advantech.com.tw/>

1.1 Symbols Used in this Manual

	Denotes information that must be observed. Failure to do so may result in personal harm or damage to the product.
---	--

	Denotes information that must be observed. Failure to do so may result in personal harm or damage to the product.
---	--

1.2 Product Features

- Rugged design.
- Featuring with the Future Intel® Celeron™ processor for intelligent system.
- Built-in WLAN/Bluetooth/NFC.
- Durable, shock-resistant magnesium alloy housing.
- 10.1 " WXGA TFT LCD
- Integrated Barcode, NFC and expansion module option of MSR and smart card Reader.
- Optional accessory to meet 6ft drop and variety of user scenario.
- Power Requirements
DC Input Voltage: 18 V
Power Consumption: less than 60 W

1.3 Package Contents

Ensure all the following items are present when you receive your MIT-W101-A. If any of these items are missing, contact your vendor immediately.

	Screens used in this manual are for illustrative purposes only. Actual screens may vary depending on your product version.
---	--

- MIT-W101-A Tablet PC
- AC power adaptor
- Battery Pack

Warning! To prevent electric shock, Do not remove cover.

Warning!



- 1. Input voltage rated 100-240 VAC, 47-63 Hz, 1.62-0.72 A, Output Voltage rated 18 VDC , max 3.5 A*
- 2. Use a 11 Vdc @ 2860 mA lithium battery*
- 3. Maintenance: to properly maintain and clean the surfaces, use only approved products or clean with a dry applicator*

Caution! 1. Do not replace battery yourself. Please contact a qualified technician or your retail provider.



2. The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

No user serviceable parts inside, refer servicing to qualified personnel.

1.4 Optional Modules

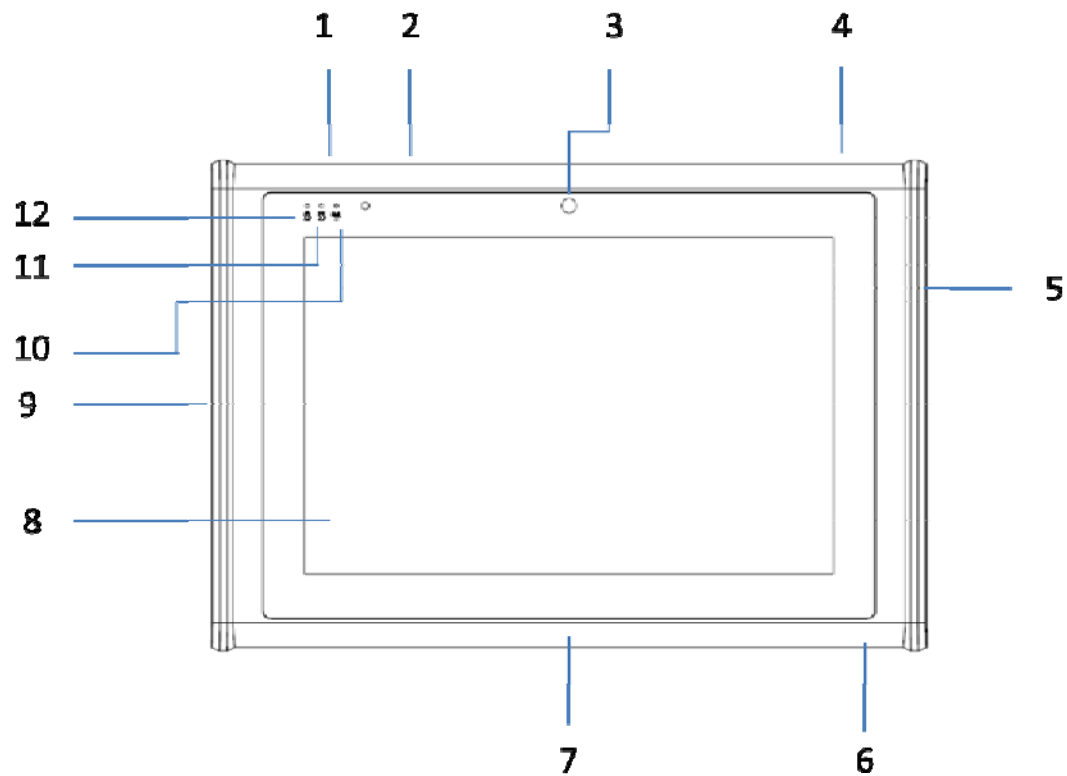
- Barcode Scanner
- Expansion module (MSR and Smart Card Reader)

1.5 System Configuration

The block diagram of a MIT-W101-A tablet computer is shown in the following diagram:

1.6 Exploring the MIT-W101-A

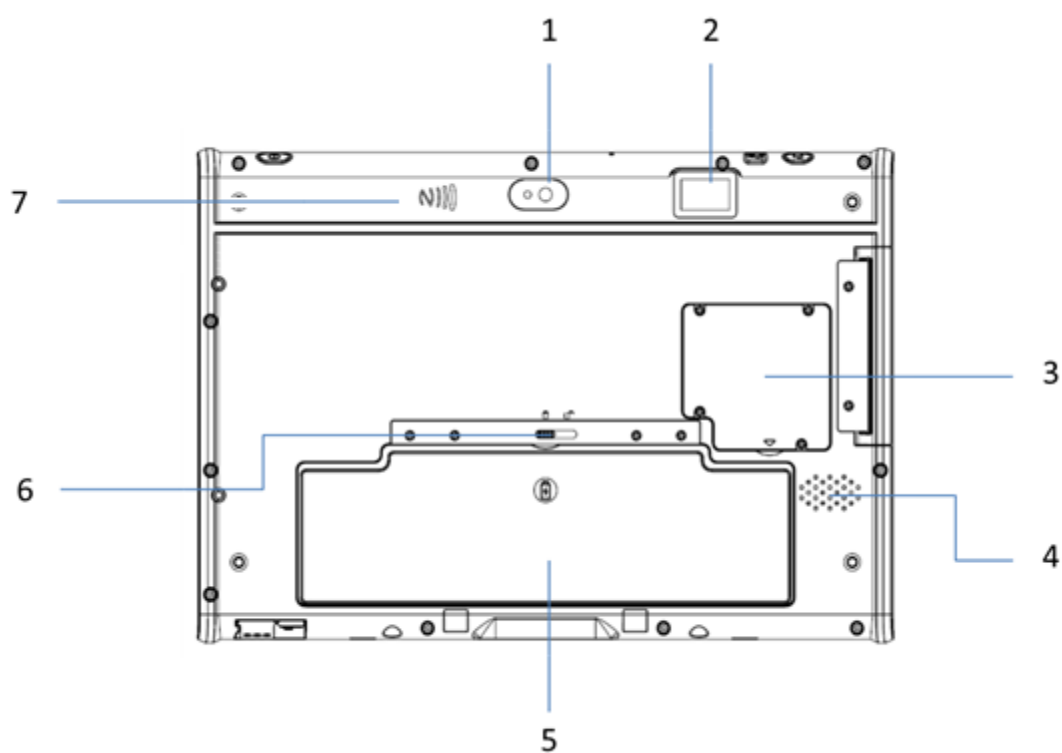
1.6.1 Front View



No.	Component
1	P1 - Programmable Button
2	P2 - Programmable Button
3	Front Camera
4	Power button
5	Connected to expansion module
6	DC-in jack
7	Docking connector
8	Projective capacitive multiple touch screen
9	I/O ports • USB 3.0 x 1 • USB 2.0 x 1 • Micro HDMI x 1

	• Audio x 1
10	Connectivity LED indicator • Blue: when Wi-Fi / BT module is on
11	HDD LED indicator • Blinking green: when hard disk drive is working
12	Power / Battery LED indicator • Green: Battery is fully charged (>95%) • Amber : Battery is charging or Battery life is lower than 10%

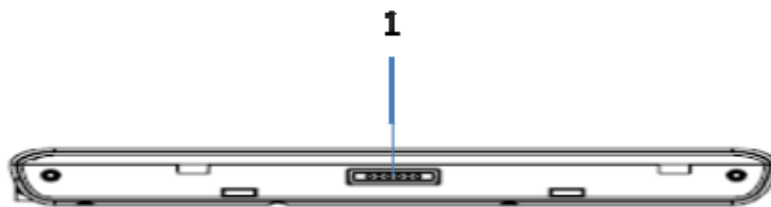
1.6.2 Rear View



No.	Component
1	Back camera
2	Barcode scanner
3	SSD cover
4	Speaker
5	Battery
6	Battery Latch

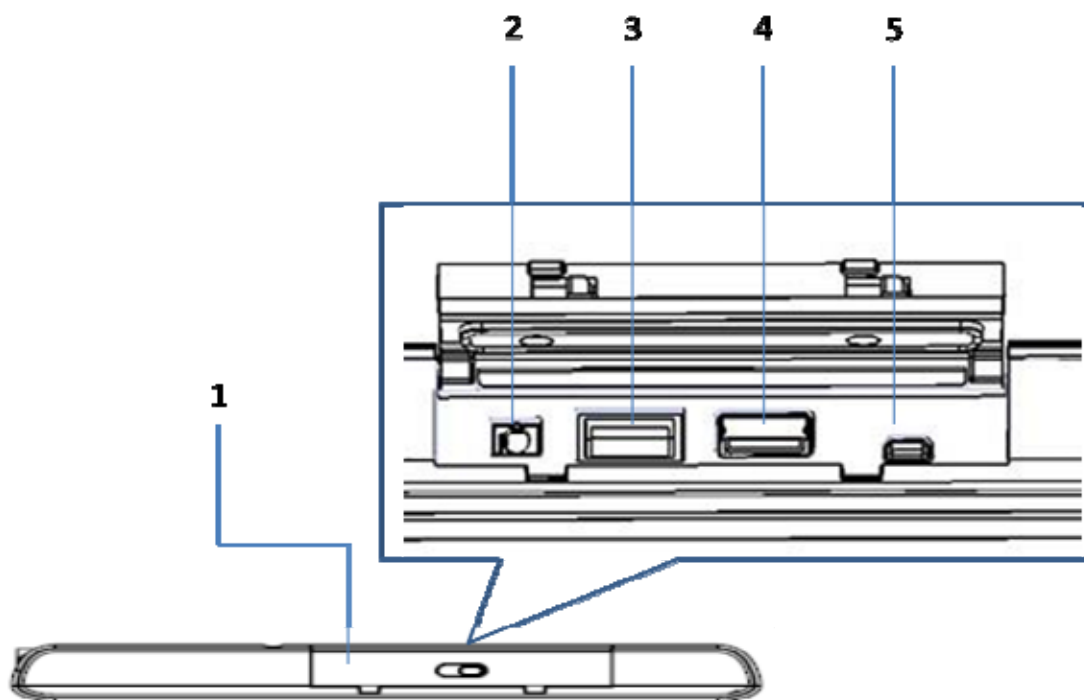
7	NFC
---	-----

1.6.3 Right View



No.	Component
1	Connected pin for expansion module

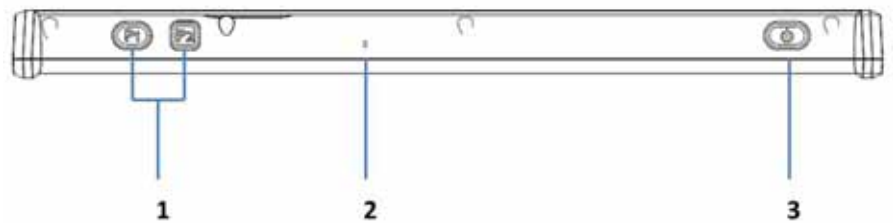
1.6.4 Left View



No.	Component
1	I/O ports cover
2	Audio Jack
3	USB 3.0
4	USB 2.0

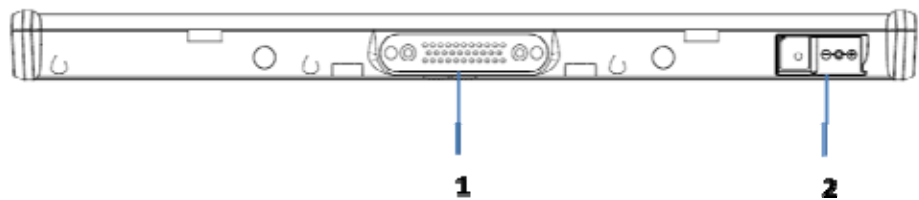
5	Micro HDMI
---	------------

1.6.5 Top View



No.	Component
1	Function buttons
2	Built-in MIC
3	Power button

1.6.6 Bottom View



No.	Component
1	Docking connector
2	AC-in jack

Chapter 2 Making Connections

2.1 Connecting the Power

Before you can use your MIT-W101-A, you must fully charge the battery. Connect the power adapter as shown and leave to charge for:

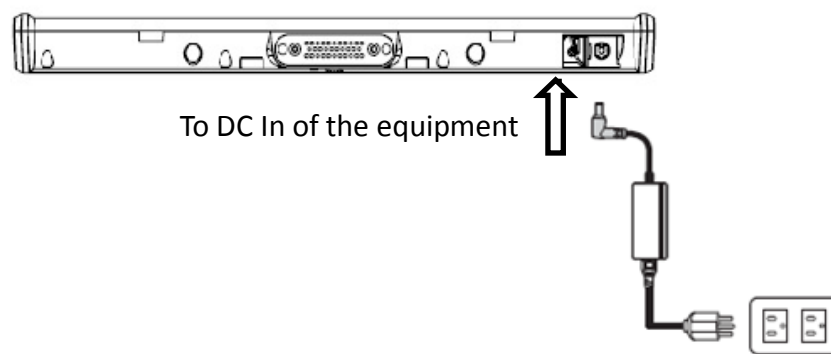
- A minimum of 2 hours when using the internal battery
- A minimum of 4 hours when a second battery is installed

Condition: the operation time is based on the LCD backlight at 50% and the average utilization of the system under 10%.

Installation Procedures:

1. Connect the female end of the power adapter to the DC-in of MIT-W101-A.
2. Connect the female end of the power cord to the DC power adapter.
3. Connect the 3-pin male plug of the power cord to an electrical outlet.

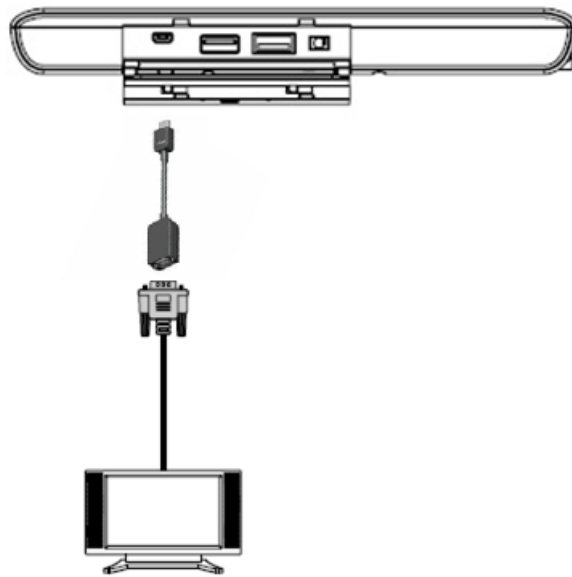
NOTE: Be sure always handle the power cords by holding the plug ends only.



2.2 Connecting to a Monitor

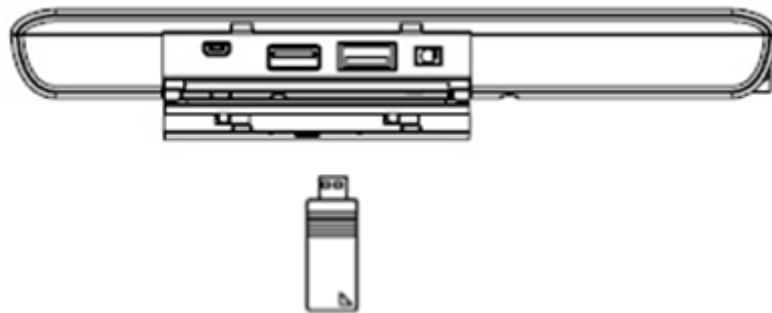
You can connect the MIT-W101-A to an external monitor for enhanced viewing.

Connect one end of a HDMI to VGA cable to the Micro HDMI port on the left side of the MIT-W101-A. Connect the other end to the VGA cable and connect to the monitor.



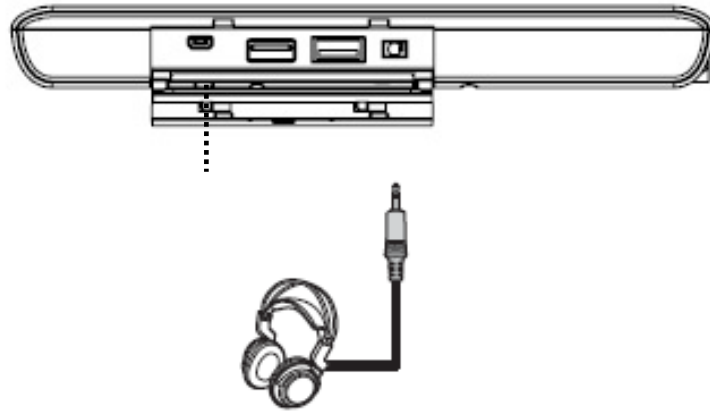
2.3 Connecting USB Devices

You can connect peripheral devices, such as a USB keyboard and mouse, as well as other wireless devices using the USB ports on the left side of the MIT-W101-A.



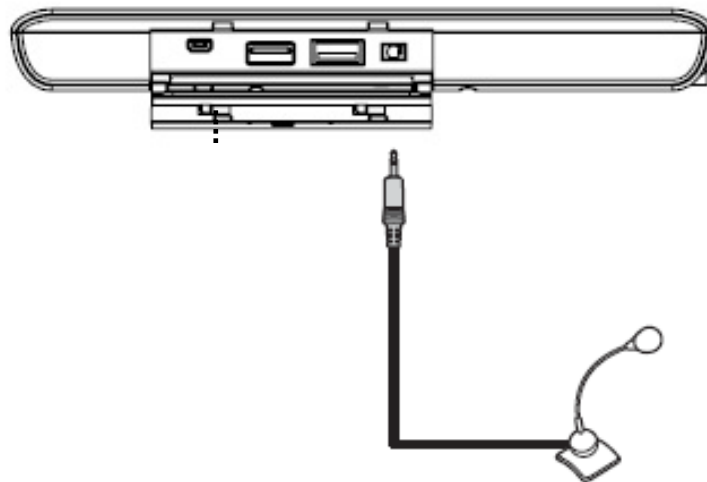
2.4 Connecting Headphones

You can connect a pair of headphones using the headphone jack on the left side of the MIT-W101-A.



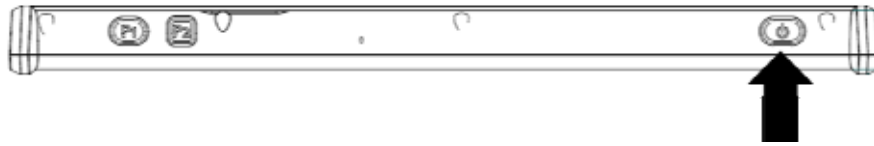
2.5 Connecting a Microphone

The MIT-W101-A features a built-in microphone, but you can still connect an external microphone if needed. Connect the microphone to the microphone jack on the left side of the MIT-W101-A as shown.



Chapter 3 Turning On

1. Press and hold the power button to turn on the MIT-W101-A.



3.1 Controlling the MIT-W101-A

3.1.1 Using the Touch Screen

The MIT-W101-A is equipped with touch screen technology, for ease of use when you are on the go. Simply tap the screen with your finger to select icons and run applications.

3.1.2 Using the Tap Function

When you tap on the screen with a pen or stylus, it emulates click functions of a regular mouse.

- To emulate a left click single tap the screen once.
- To emulate a right click tap and hold the screen.
- To emulate a double click, tap the screen twice.

3.1.3 Using the Control Panel Buttons

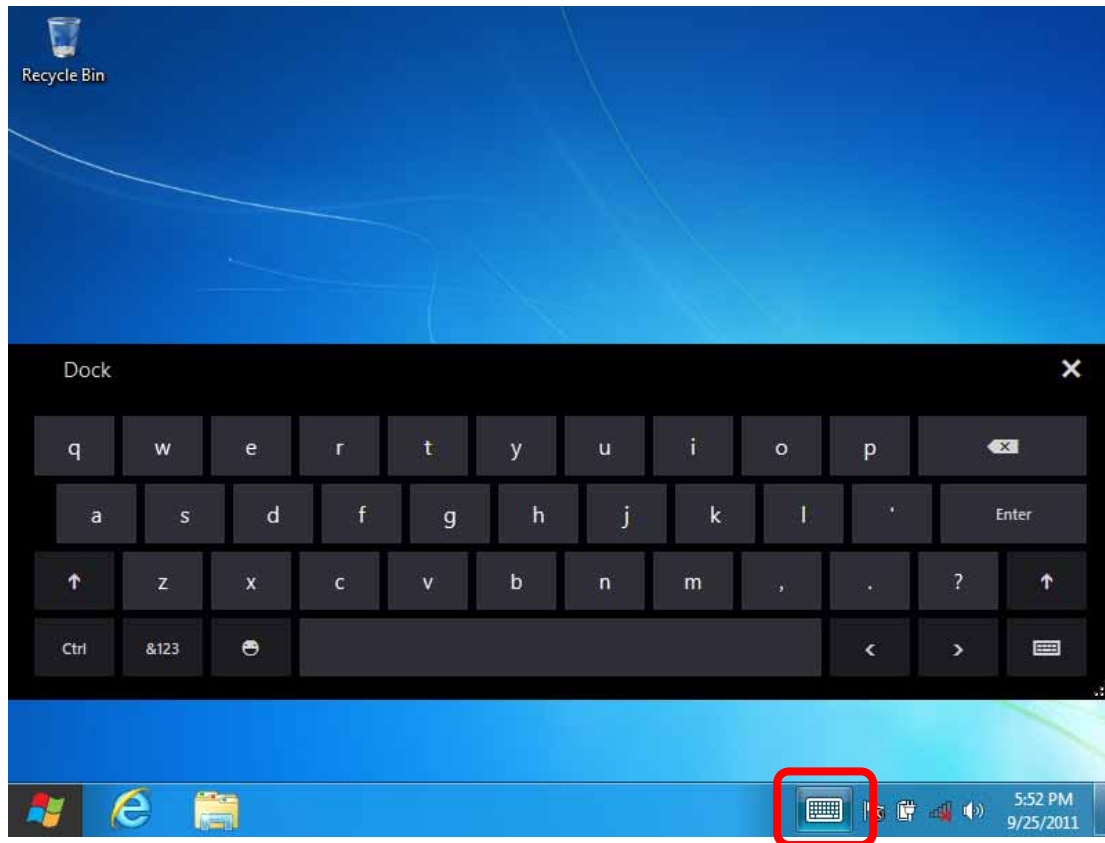
The control panel buttons are located on the top side of MIT-W101-A.

See below for a description of the two buttons and its function.

Button	Name	Function
	Function	Press to access your favorite programs
	Power	Press to power on/off

3.1.4 Using the On-Screen Keyboard

1. Click on icon in the taskbar to bring up the on-screen keyboard.



2. Use your finger or stylus pen to tap and enter letters, numbers and symbols as you would with a regular keyboard. To type capital letters tap the lock icon on the on-screen keyboard.

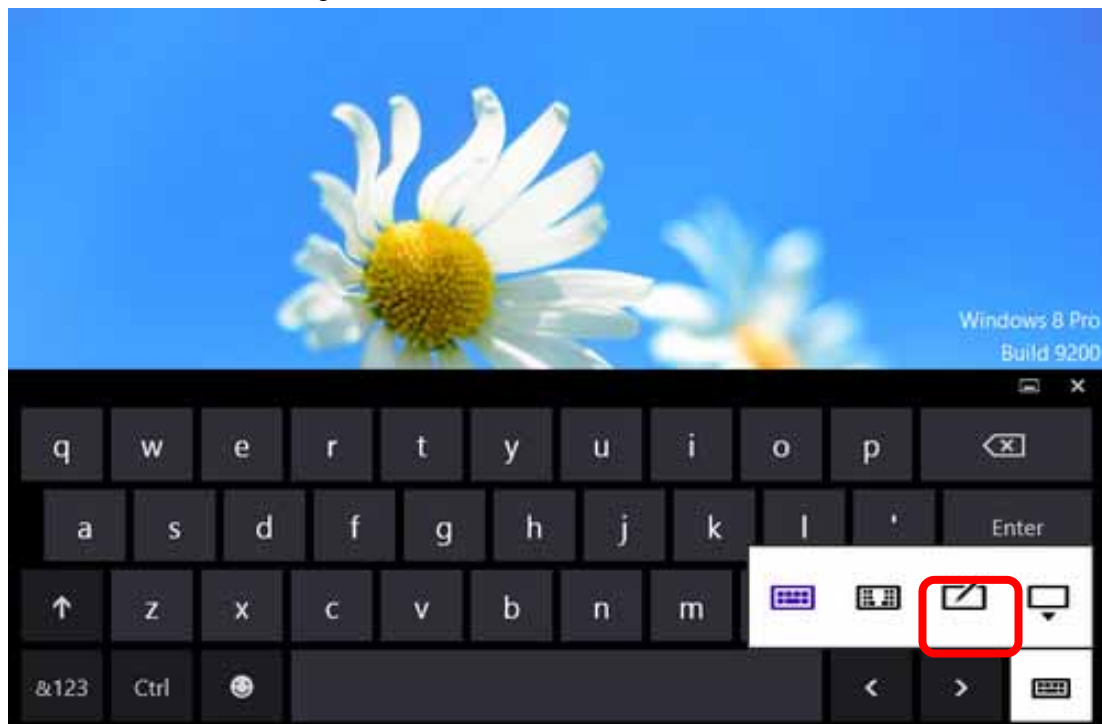


1. To use handwriting, tap bottom right button of On-Screen Keyboard.

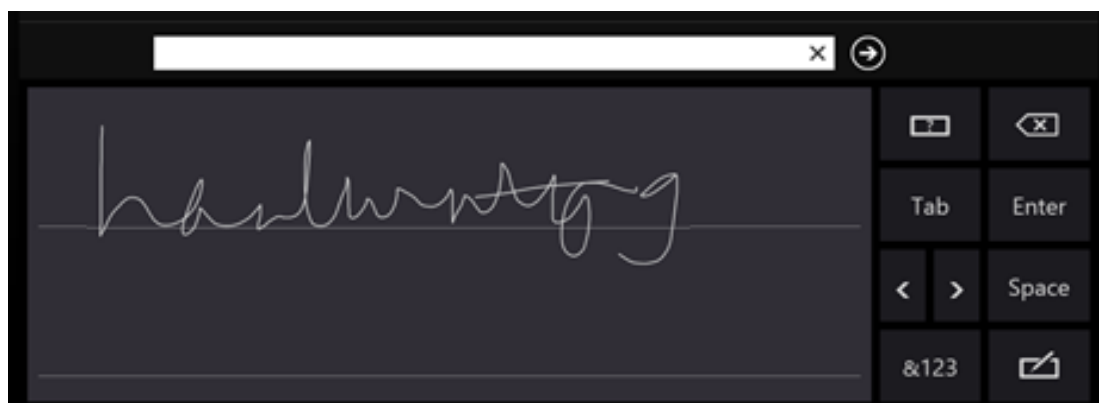




2. Select the **handwriting** icon.

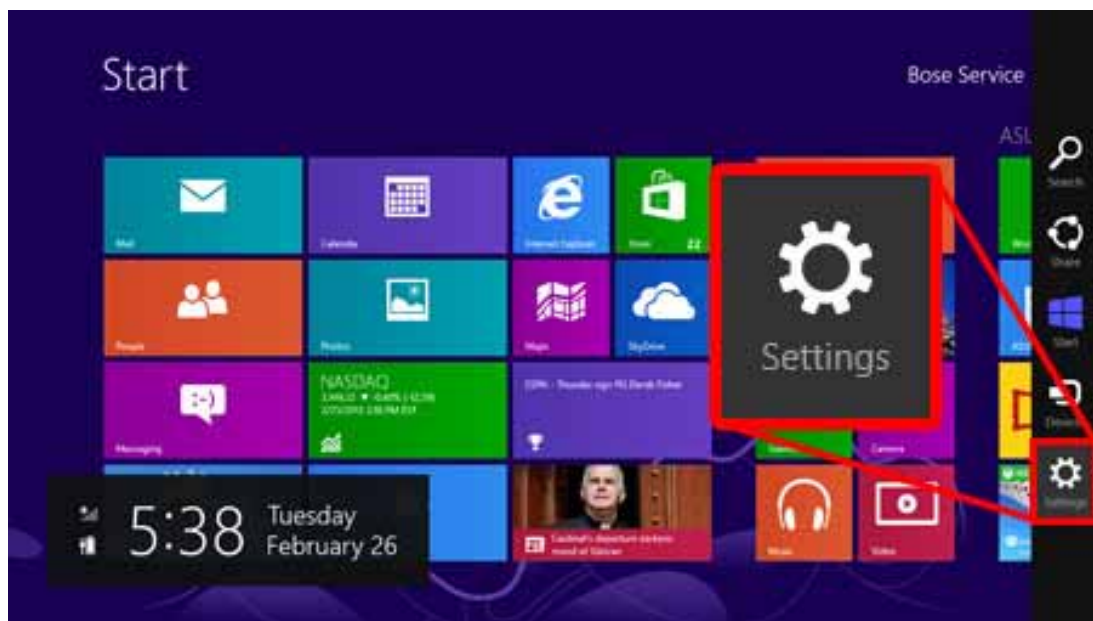


3. Use your finger and stylus pen to write on screen.

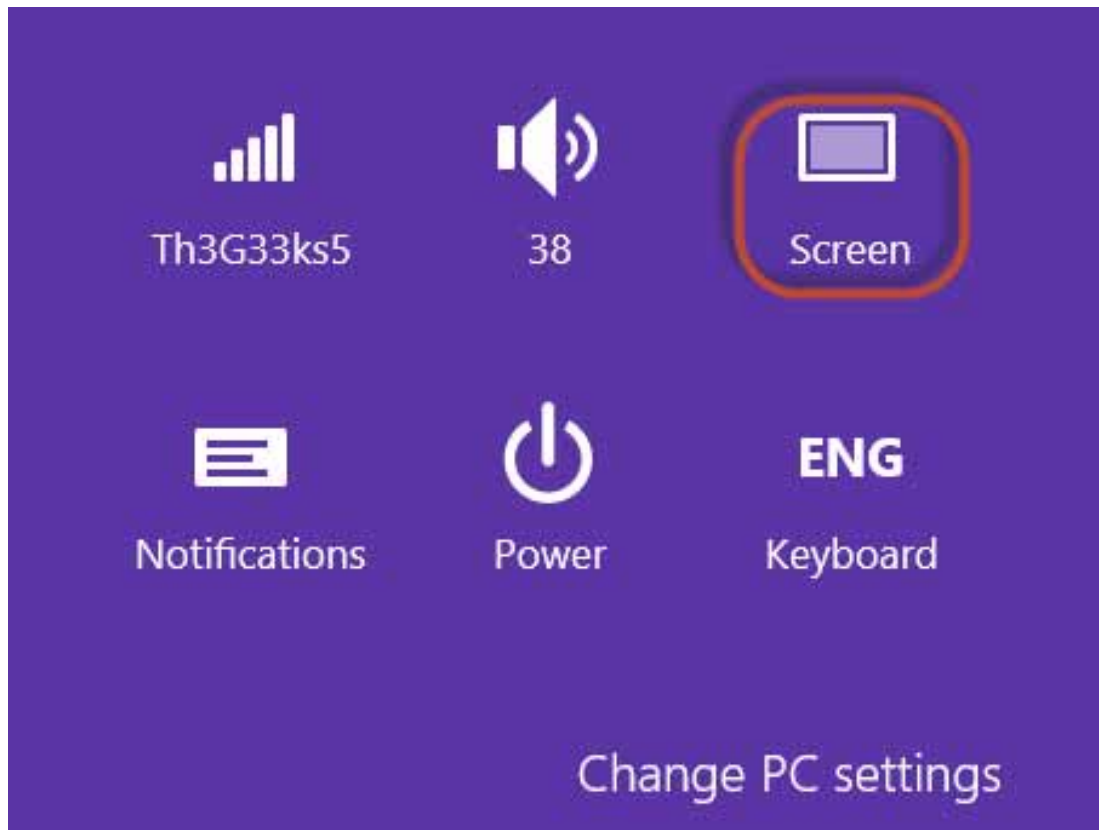


3.1.5 Adjusting Screen Brightness

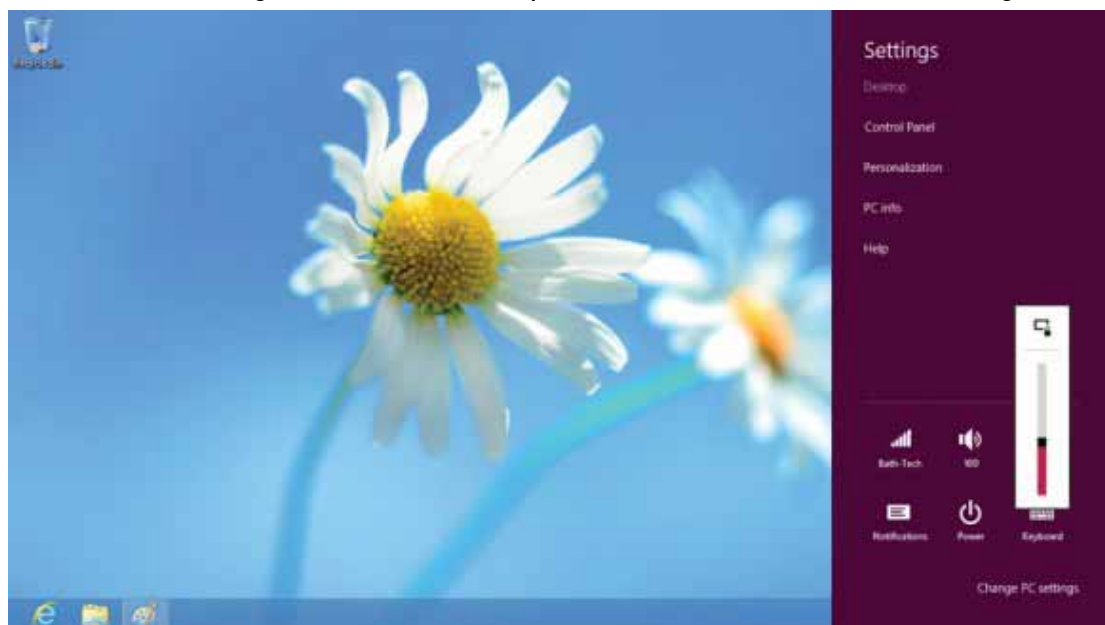
1. Tap the **Settings** icon on the right.



2. Tap **Screen** icon to access the brightness control.



3. To move the brightness control bar up / down to increase / decrease brightness.

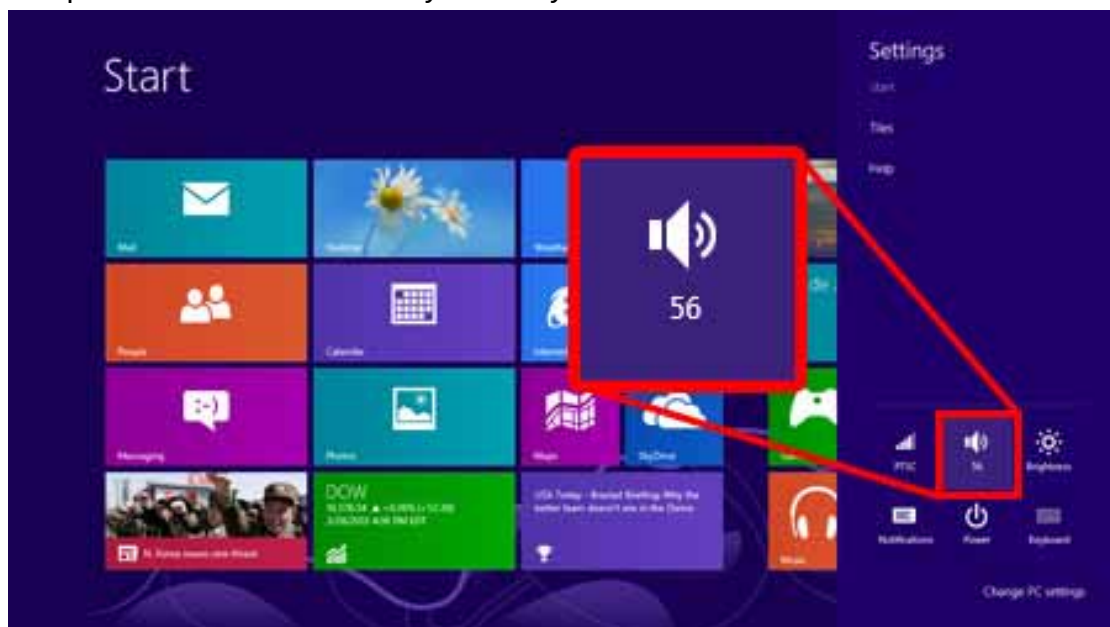


3.1.6 Adjusting the Volume

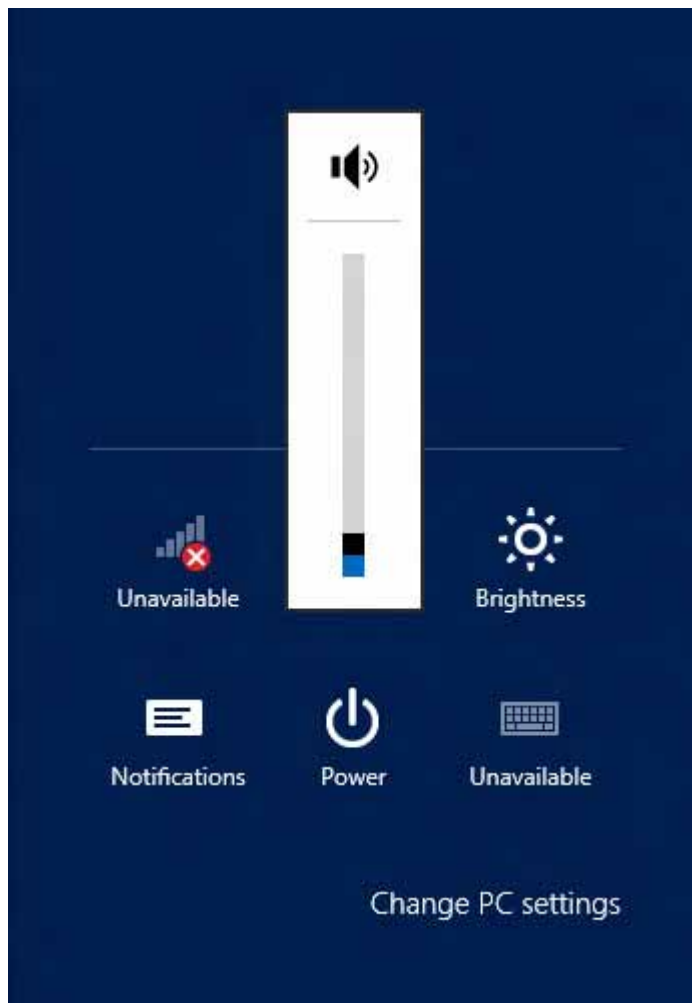
1. Tap the **Settings** icon on the right.



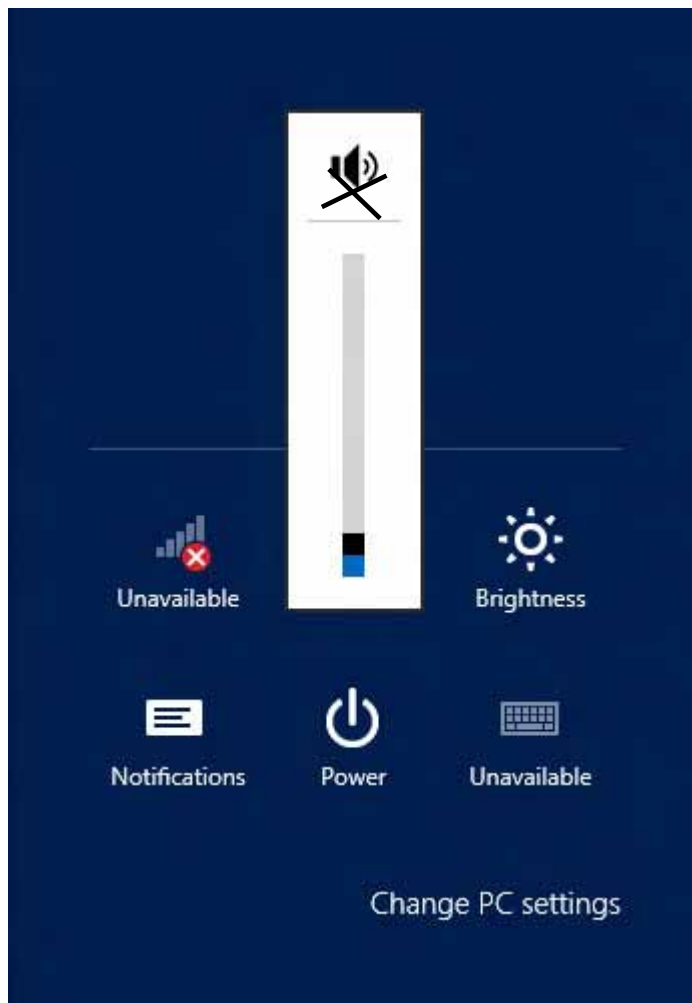
2. Tap the **Volume** icon on the system tray.



1. Move the slide to adjust volume.



2. Tap icon to mute.



Chapter 4 Wireless Connections

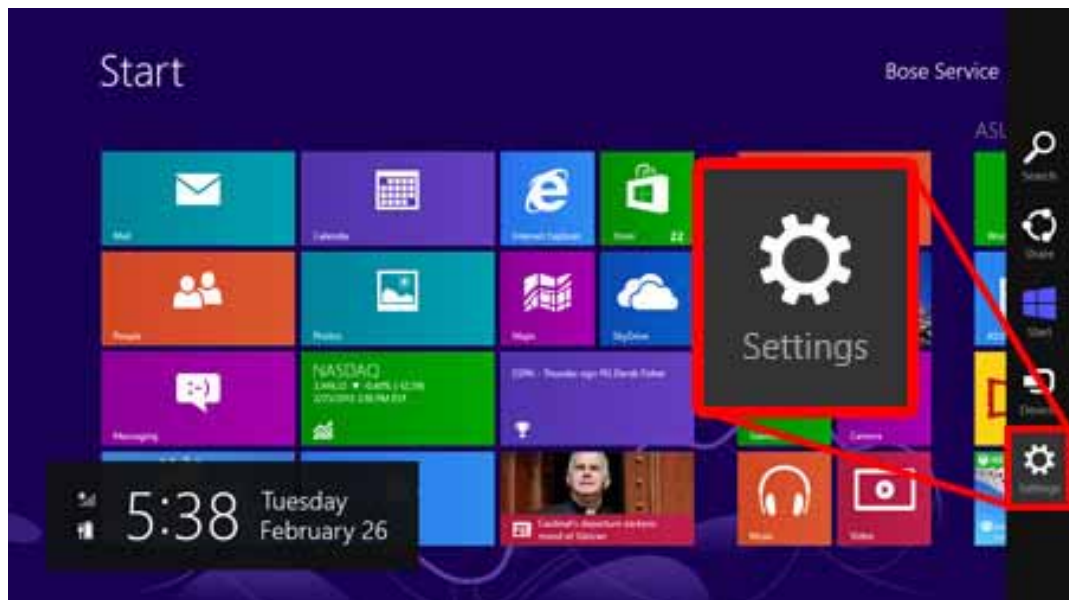
4.1 Wi-Fi Connection

Note 	Wi-Fi access requires a separate purchase of a service contract with a wireless service provider. Contact a wireless service provider for more information.
--	---

The MIT-W101-A comes pre-loaded with WLAN module; you can send and receive signals to a Wi-Fi network then synchronize files.

A wireless network can be added either when the network is detected or by manually entering settings information. Before doing these steps, determine if authentication information is needed.

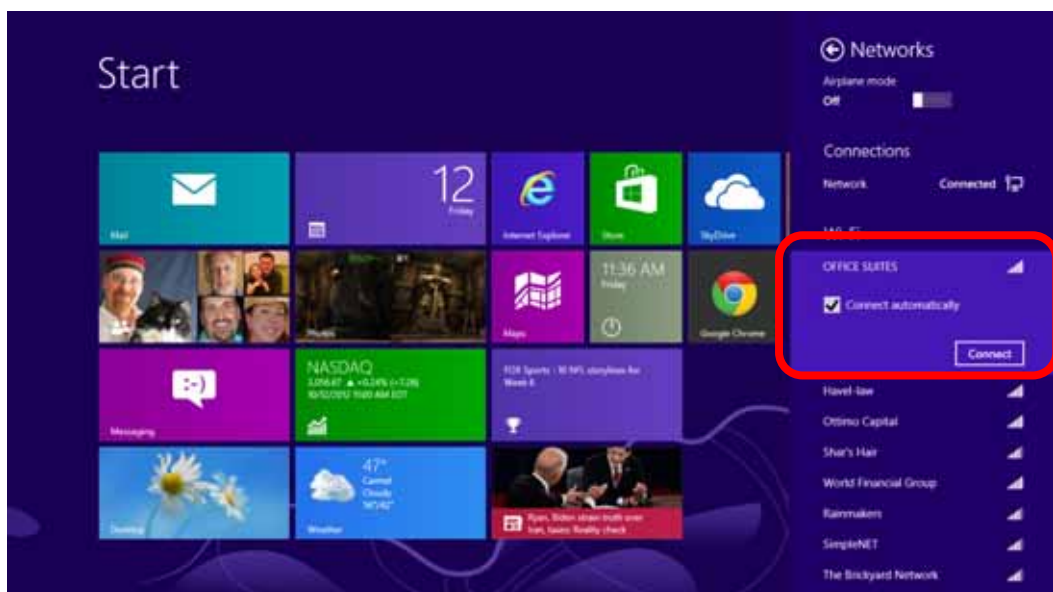
1. Tap the **Settings** icon on the right.



2. Click the wireless connection icon in the notification area.



3. Select one of the wireless connections and click Connect.

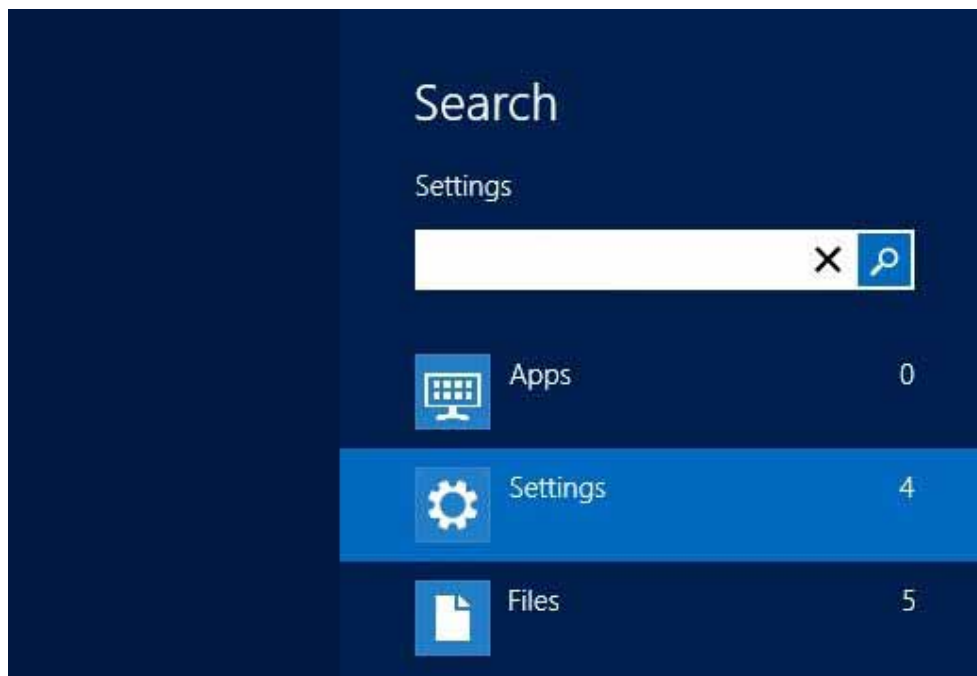
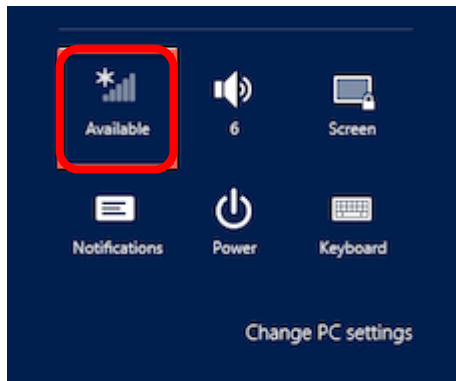


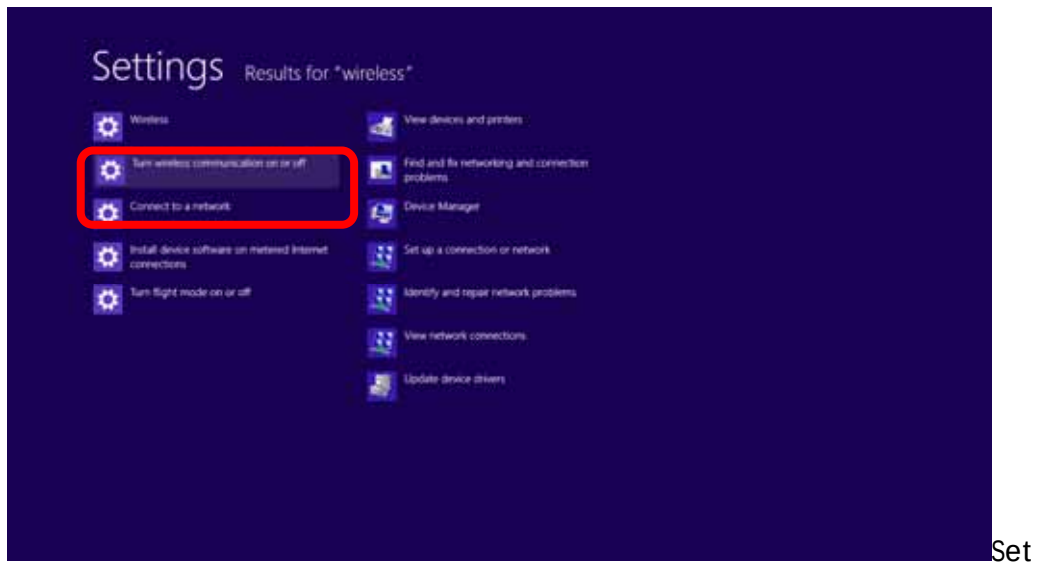
4. You are prompted to enter a Security key for secure access. Contact the network administrator for this key.



5. Enter the required Security key and then tap **Next** to connect.
6. The wireless connection is negotiated.

The wireless connection icon in the notification area shows a connected status whenever a wireless connection is present.





airplane mode or turn off wireless devices

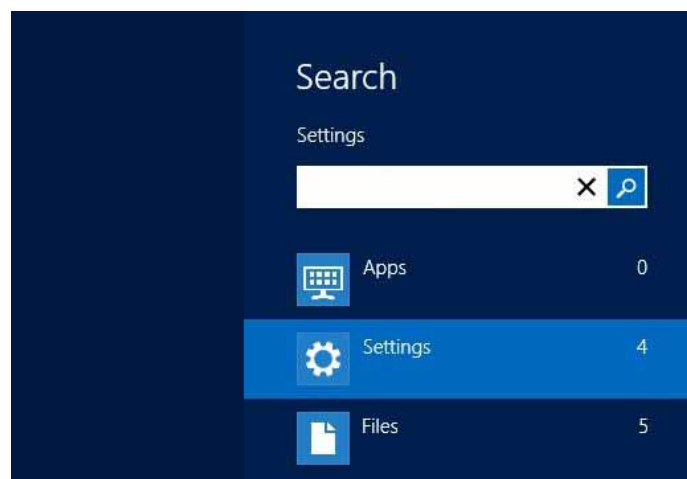
4.2 Bluetooth Connections

The MIT-W101-A comes with built-in Bluetooth functionality that allows you to connect and communicate with other Bluetooth-enabled devices.

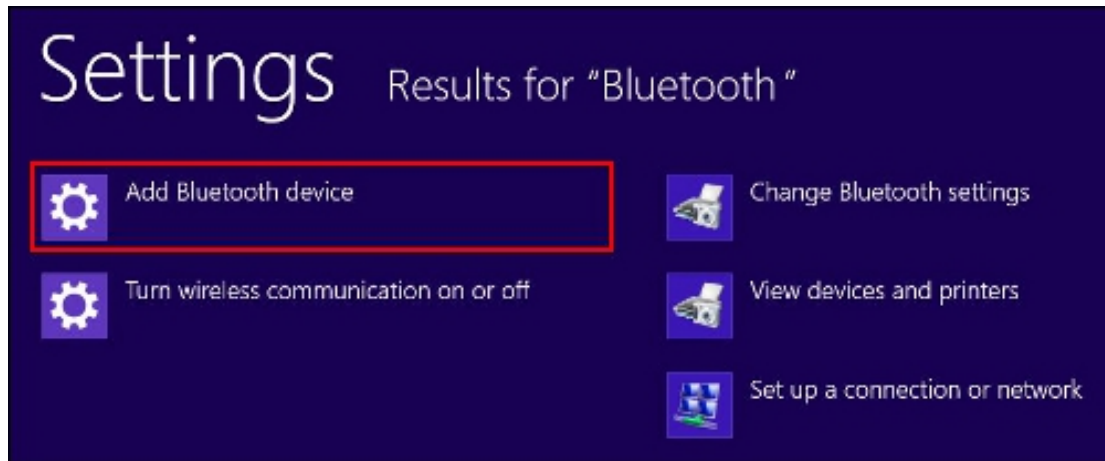
4.2.1 Setting Up Bluetooth

Follow these instructions to set up a Bluetooth connection.

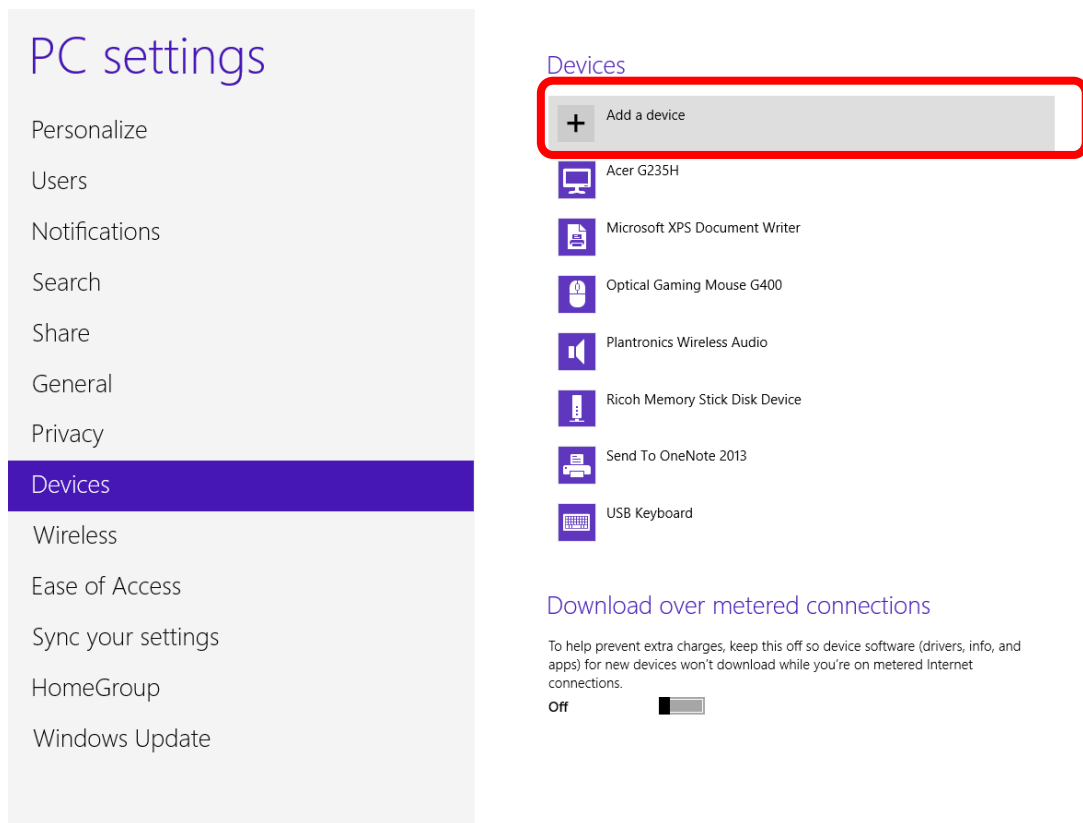
1. Type **Bluetooth** in Search



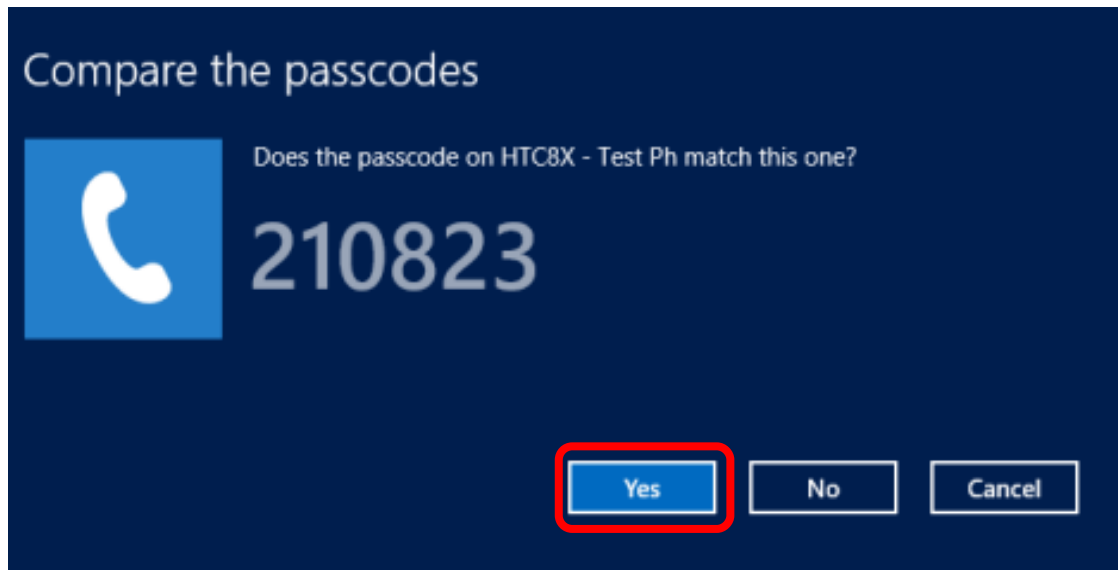
2. In notification area, tap **Add Bluetooth device**.



3. Add more Bluetooth device by clicking on **Add a device**.



4. Select **Yes** for comparing both MIT-W101-A and the Bluetooth device after passkey is confirmed.



5. The Bluetooth device is successfully added into MIT-W101-A when the process is complete.

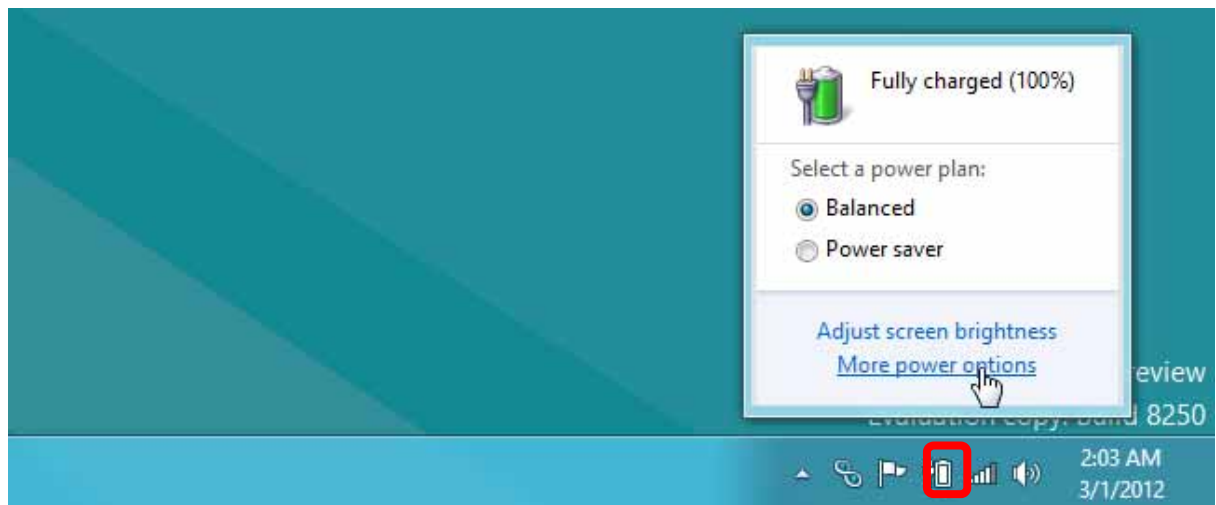
	It is recommended that you use a passkey to prevent unauthorized access to your MIT-W101-A.
--	---

Chapter 5 Advance Setting

5.1 Checking Battery Status

As it is likely you will be using your MIT-W101-A when out and about, it is important that you monitor the battery status regularly, to ensure you do not run out of power at a critical moment.

1. Tap on the **Power** icon on the system tray to view detailed information and the battery screen appears.



Balanced – Automatically balanced performance with energy consumption.

Power saver – Saves energy by reducing MIT-W101-A's performance.

5.2 Maintenance

5.2.1 Maintaining the Battery

- Do not expose heat or attempt to disassemble the battery, and do not place the battery in water or in a fire.
- Do not subject the battery to strong impact, such as a blow from a hammer, or stepping on or dropping it.
- Do not puncture or disassemble the battery.
- Do not attempt to open or service the battery.
- Replace only with batteries designed specifically for this product.
- Keep the battery out of reach of children.
- Dispose of used batteries according to local regulations.

5.2.2 Maintaining the LCD Display

- Do not scratch the surface of the screen with any hard objects.
- Do not spray liquid directly on the screen or allow excess liquid to drip down inside the device.
- Do not place anything, such as food and drink, on the screen at any time to prevent damage to the screen.
- Clean the LCD display only with a soft cloth dampened with 60% above isopropyl alcohol or 60% above ethyl alcohol.

5.2.3 Cleaning the MIT-W101-A

1. Turn off the MIT-W101-A and unplug the power cord.
2. Wipe the screen and exterior with a soft, damp cloth moistened only with water. Do not use liquid or aerosol cleaners on the screen, as these will discolor the finish and damage the screen.

5.3 Trouble Shooting

When System behaves abnormally, such as

1. Failure to power on.
2. Failure to power off.
3. Power on LED off but DC power plug in.
4. Any other LEDs ON but system cannot work.

Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:

- Product name and serial number.
- Descriptions of your peripheral attachments.
- Descriptions of your software (operating system, version, application software, etc.)
- A complete description of the problem.
- The exact wording of any error messages.
- Symptoms, photo or video if available.

Guidance and manufacturer's declaration – electromagnetic emissions		
The model MIT-W101 SERIES is intended for use in the electromagnetic environment specified below. The customer or the user of the model MIT-W101 SERIES should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11		The model MIT-W101 SERIES uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11		The model MIT-W101 SERIES is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2		
Voltage fluctuations/ flicker emissions IEC 61000-3-3		

Recommended separation distances between portable and mobile RF communications equipment and the model MIT-W101 Series			
The model MIT-W101 series is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the model MIT-W101 series can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the model MIT-W101 series as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1,2 \sqrt{P}$	80 MHz to 800 MHz $d = 1,2 \sqrt{P}$	800 MHz to 2,5 GHz $d = 2,3 \sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Guidance and manufacturer's declaration – electromagnetic immunity

The model MIT-W101 SERIES is intended for use in the electromagnetic environment specified below. The customer or the user of the model MIT-W101 SERIES should assure that it is used in such an environment.

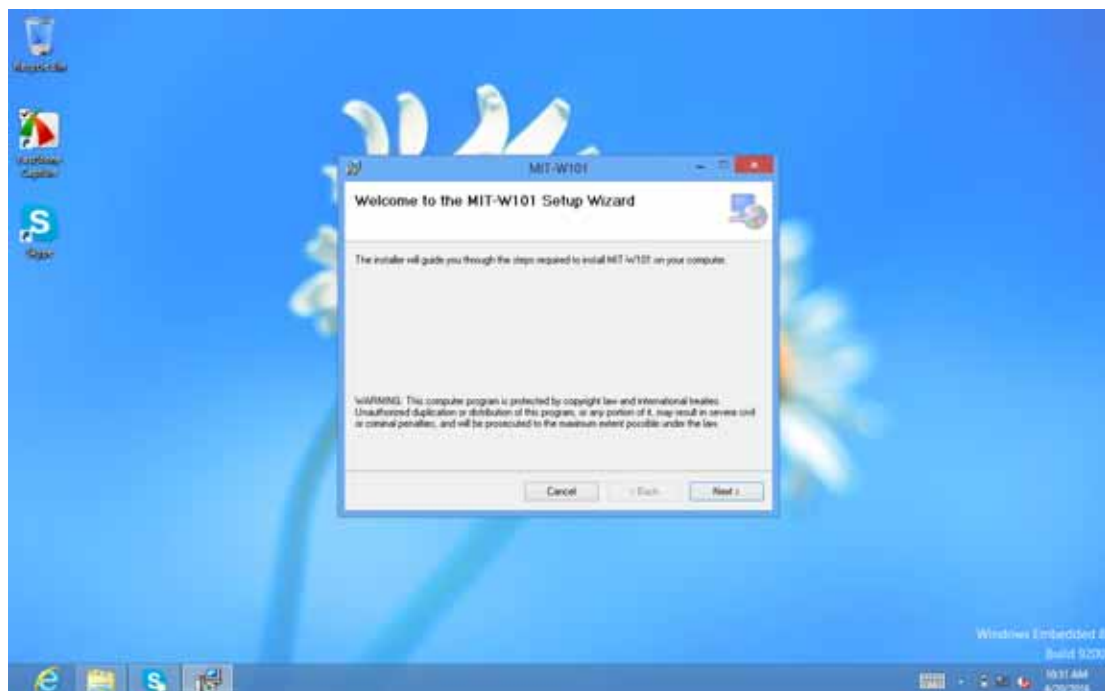
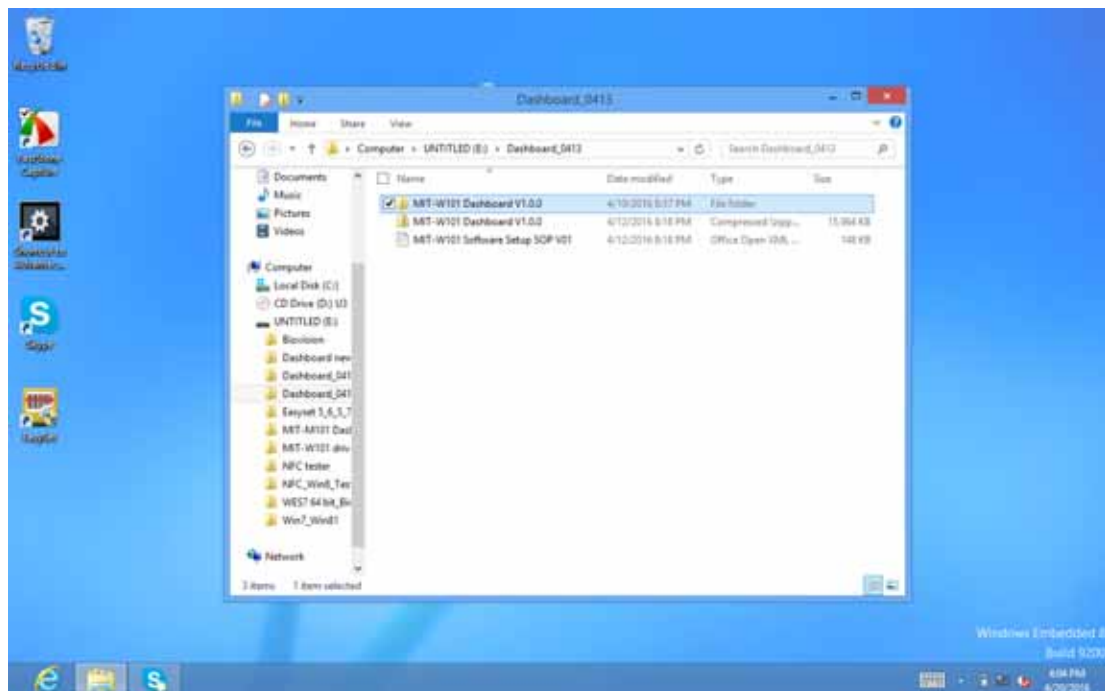
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz	Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the model MIT-W101 SERIES, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1,2 \sqrt{P}$
Radiated RF IEC 61000-4-3	to 80 MHz 3 V/m 80 MHz to 2,5 GHz	V/m	$d = 1,2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2,3 \sqrt{P}$ 800 MHz to 2,5 GHz where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b

			Interference may occur in the vicinity of equipment marked with the following symbol: 
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model MIT-W101 SERIES is used exceeds the applicable RF compliance level above, the model MIT-W101 SERIES should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the model MIT-W101 SERIES. ^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than V/m.			

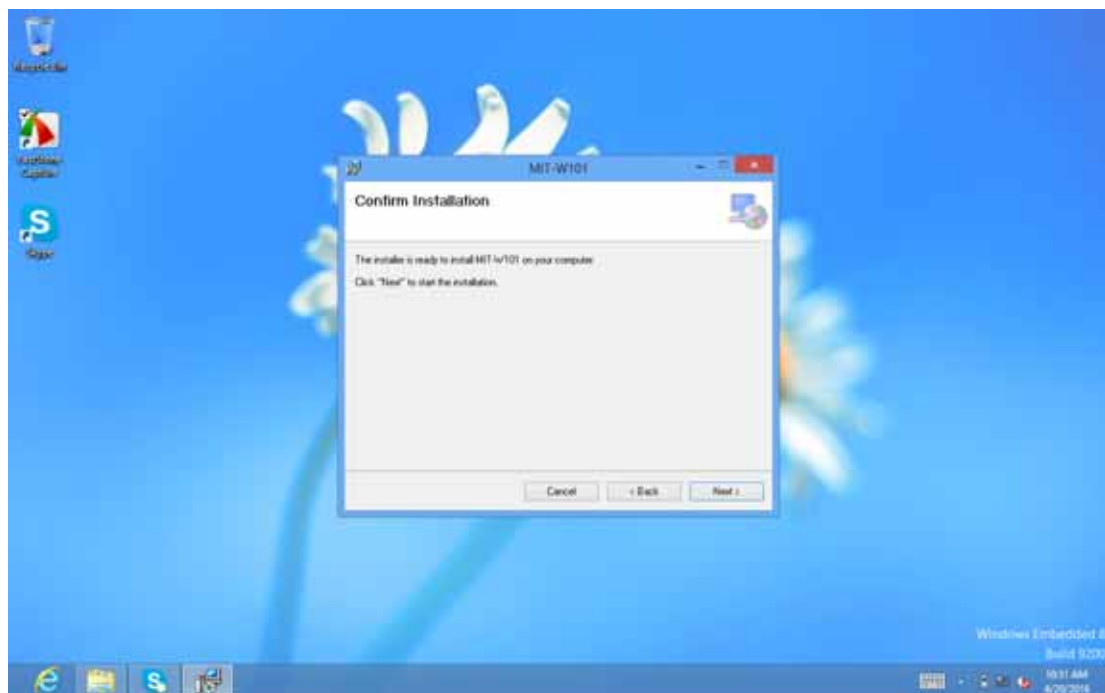
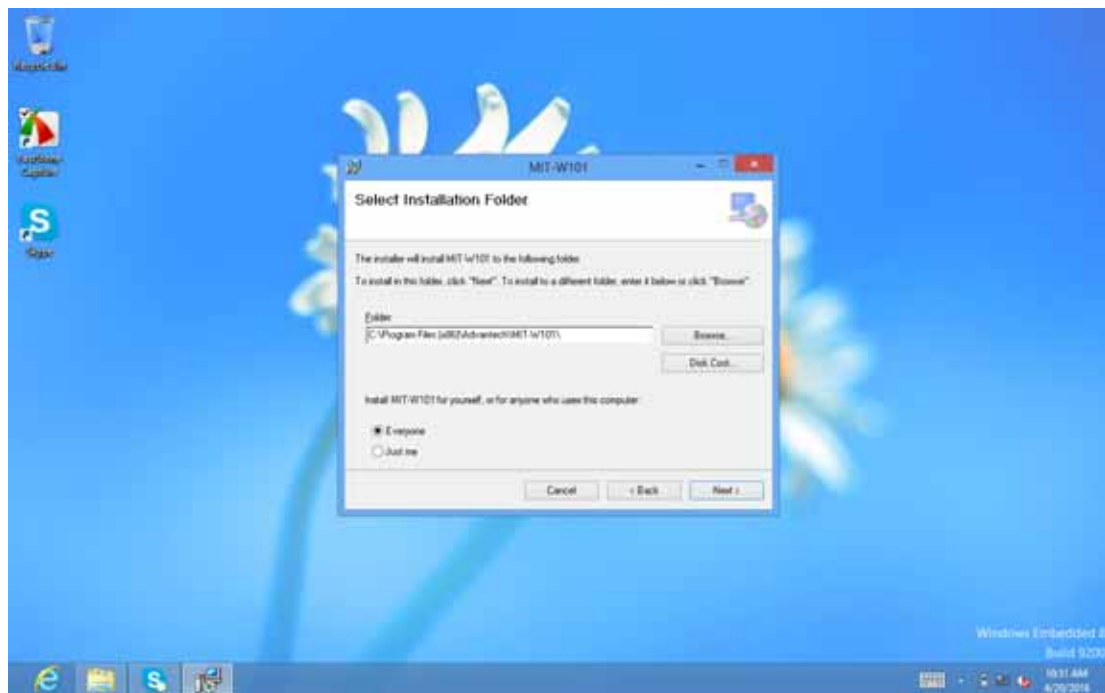
Chapter 6 Dashboard Installation & Hotkey setting

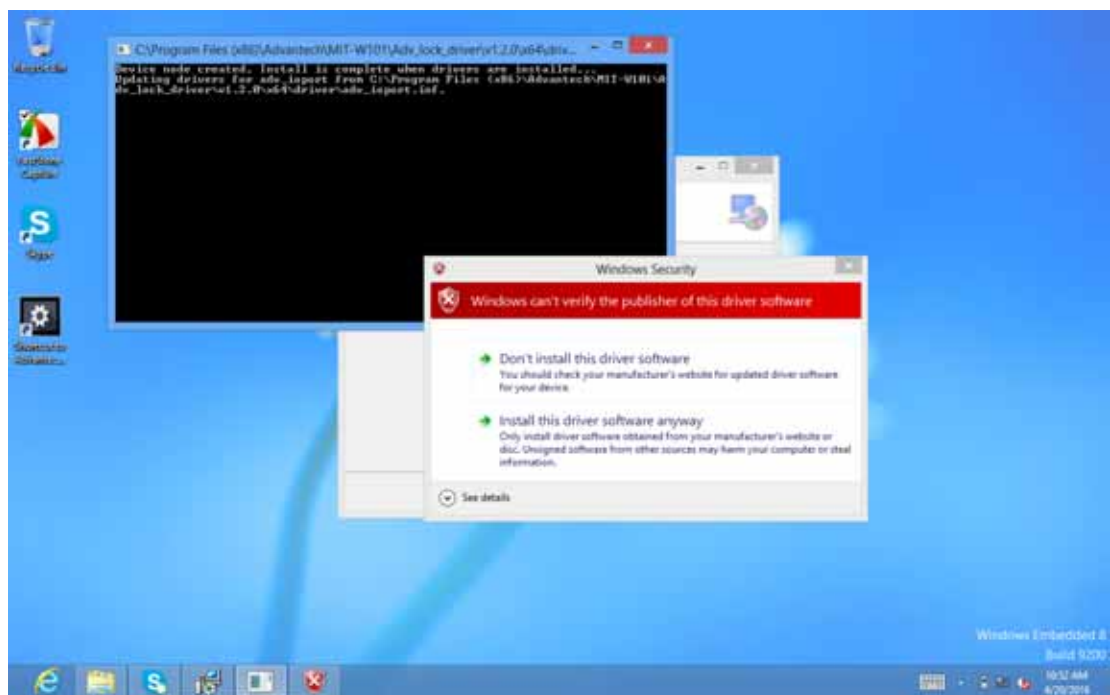
6.1 Installation

6.1.1 Extract file “MIT-W101-Dashboard v1.0.0

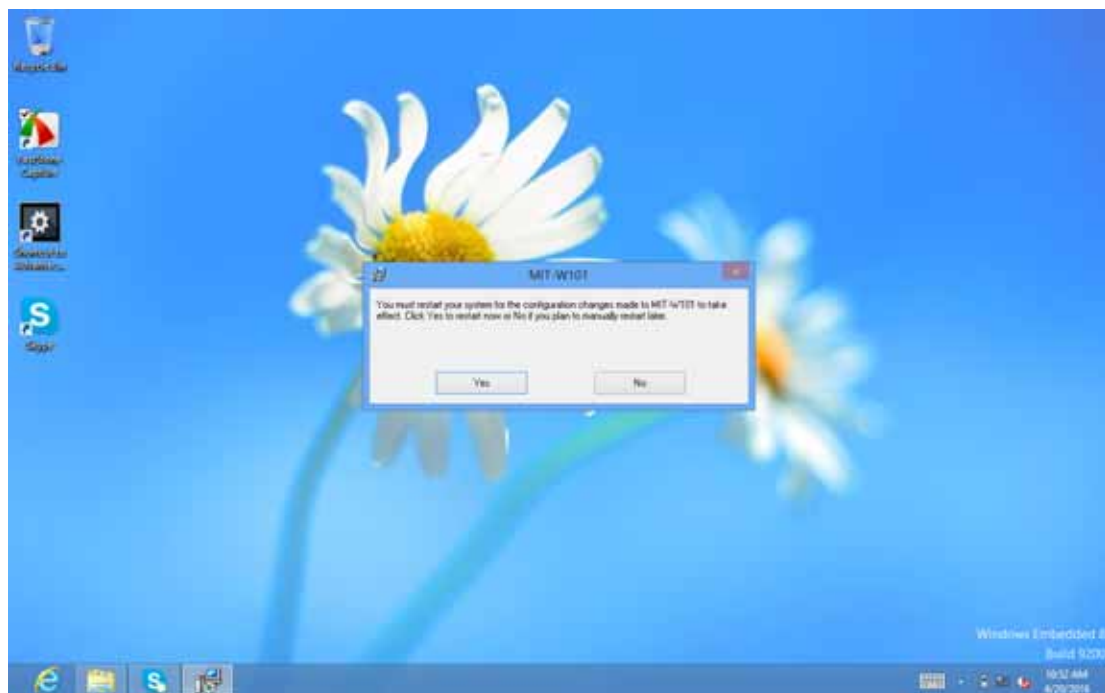
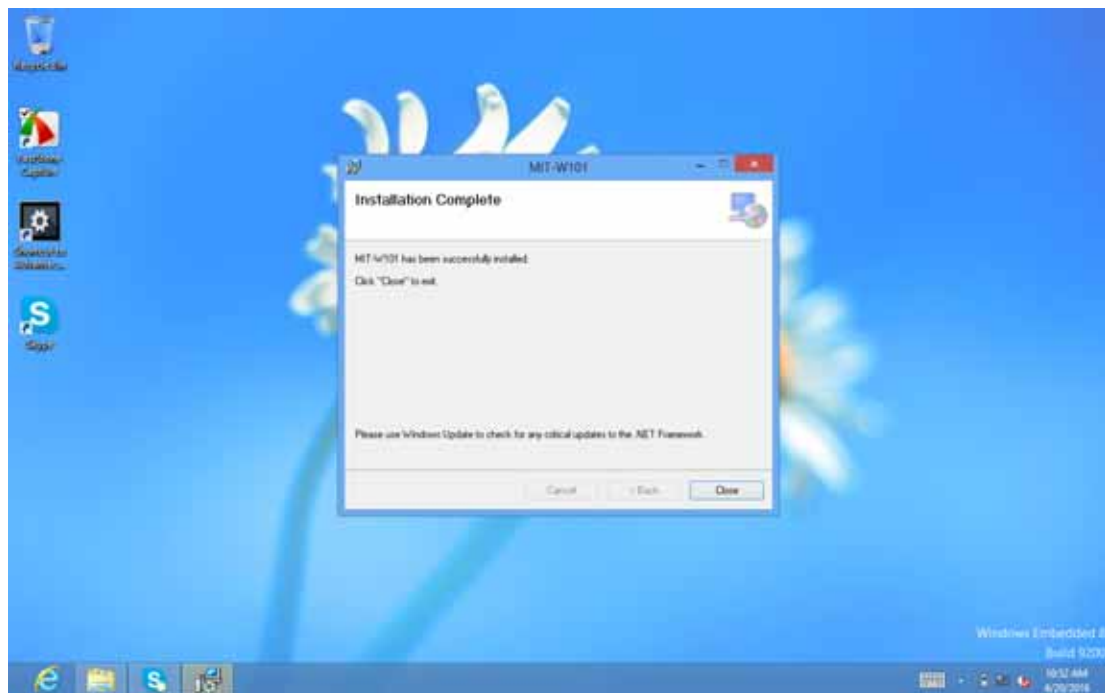


6.1.2 Follow the procedure to install the dashboard





6.1.3 Install completed and re-start MIT-W101



6.2 Start to use

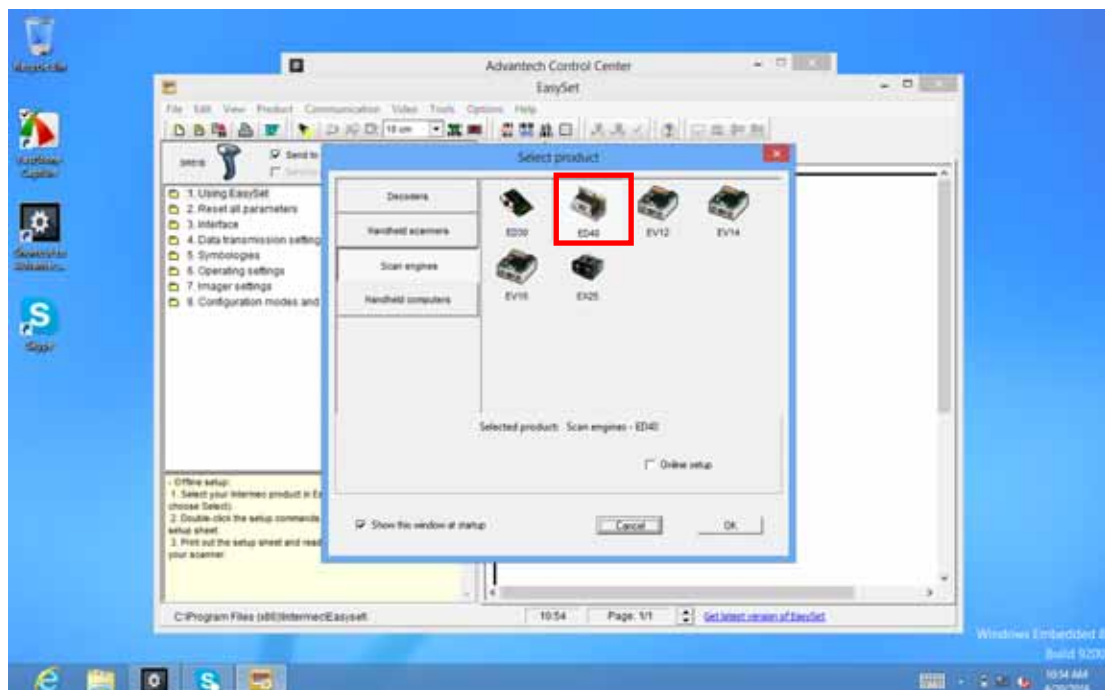
6.2.1 Click icon of “Advantech Control Center”



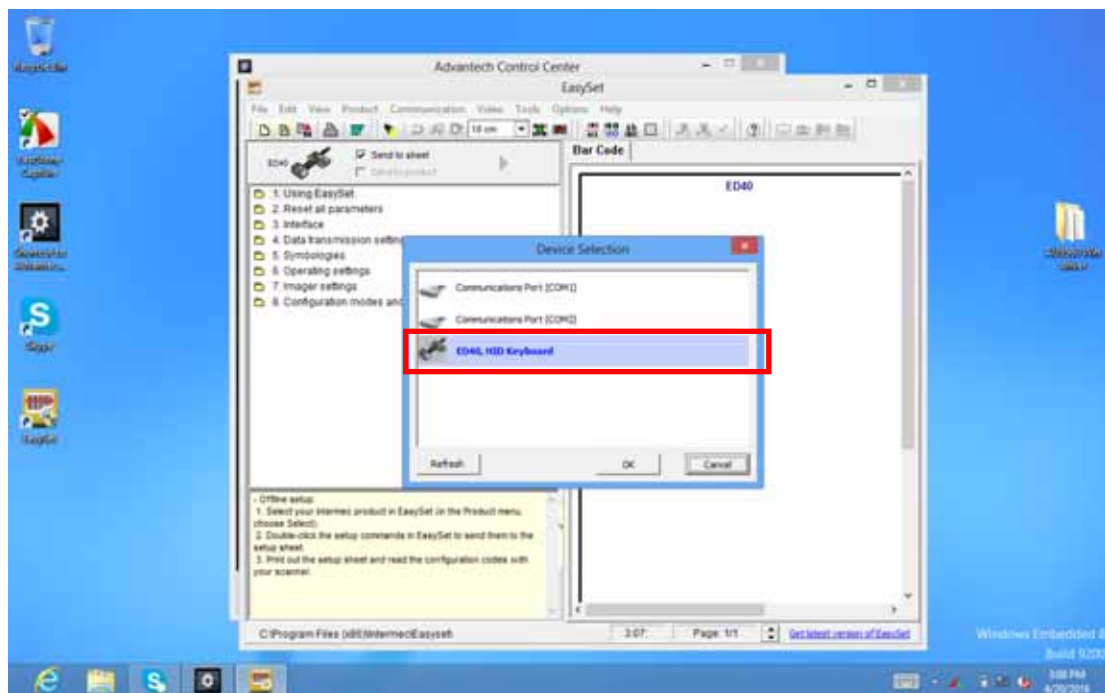
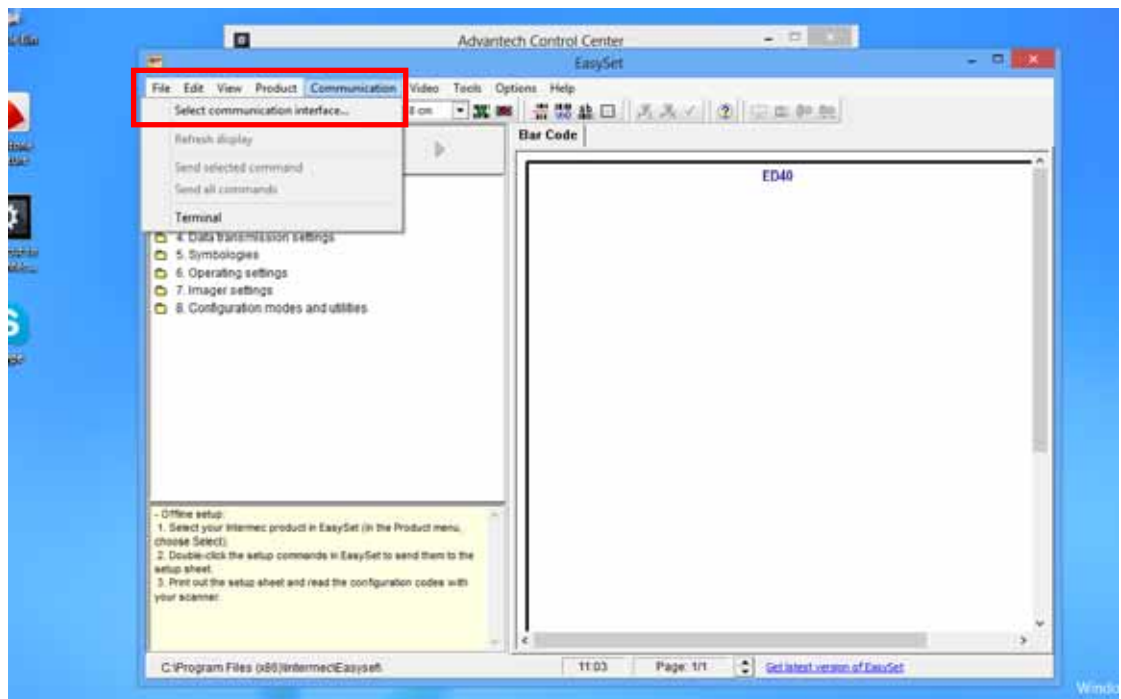
6.2.2 Barcode reader

6.2.2.1 Barcode reader setting

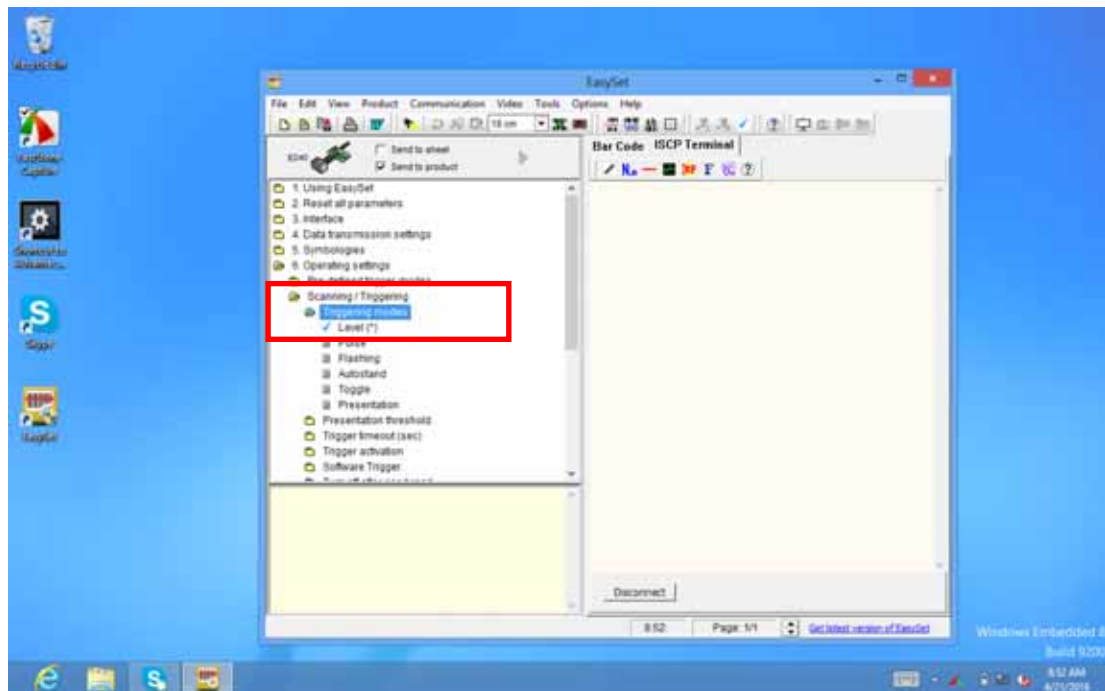
(1) Select Product “ED40”, click ok



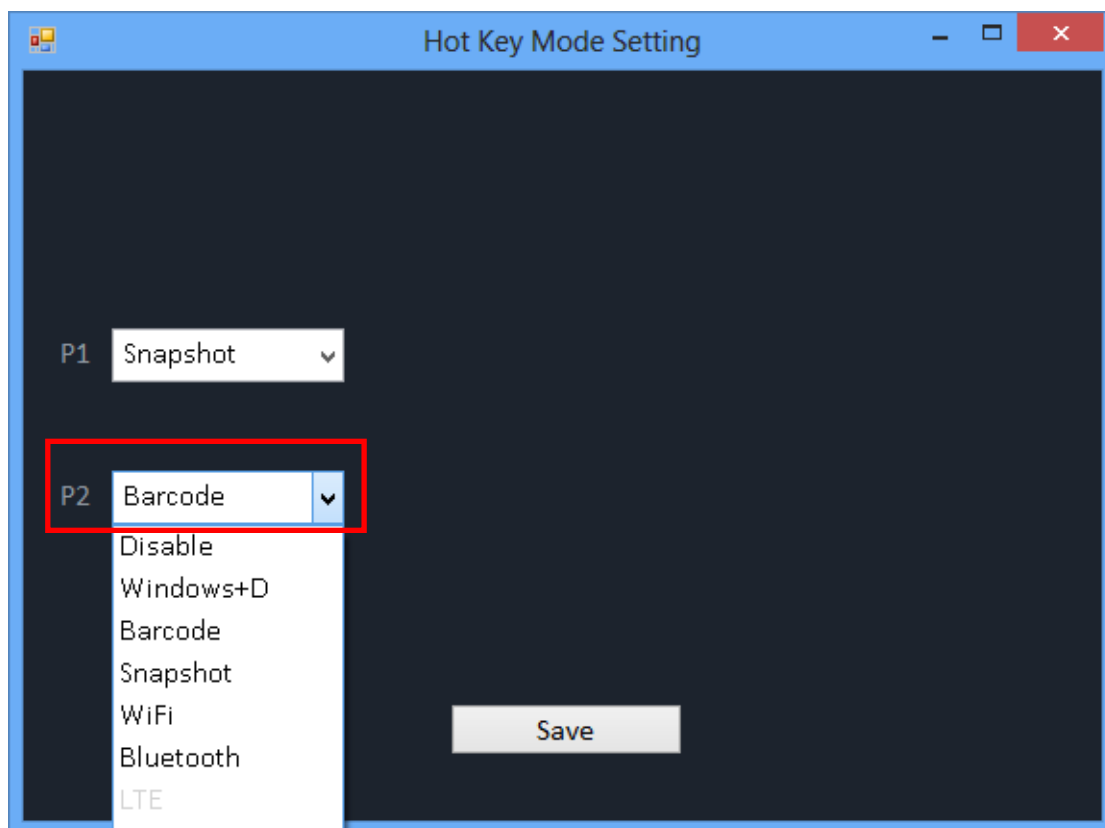
(2) Select Communication Interface “ED40, HID Keyboard”



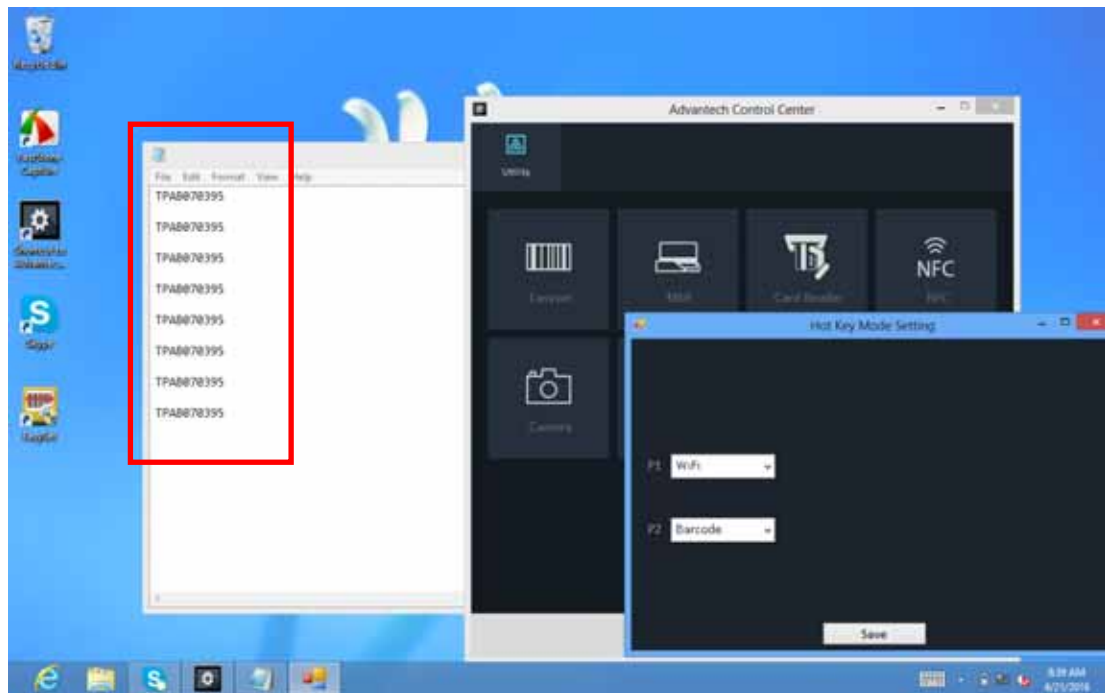
(3) Select Trigger Modes → Level Mode



(4) Set P2 key as a barcode trigger Key (P1 key also could be configurable)

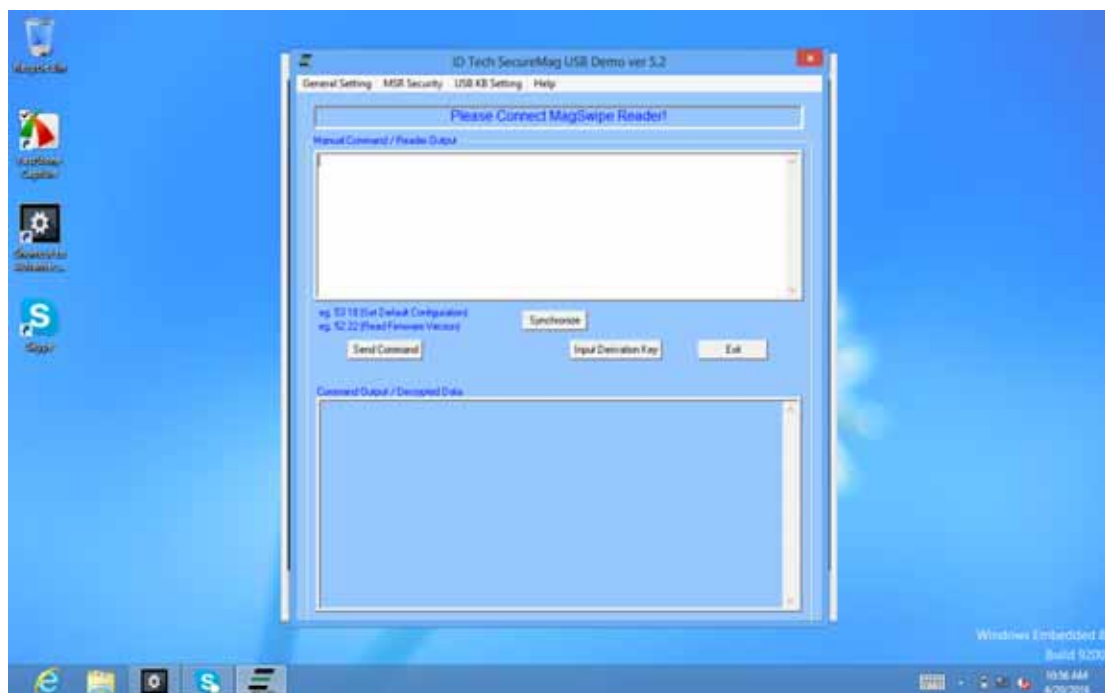


(5) Aim the barcode scanner at the object barcode, press P2 key. Barcode contents will show in the word or notepad file.



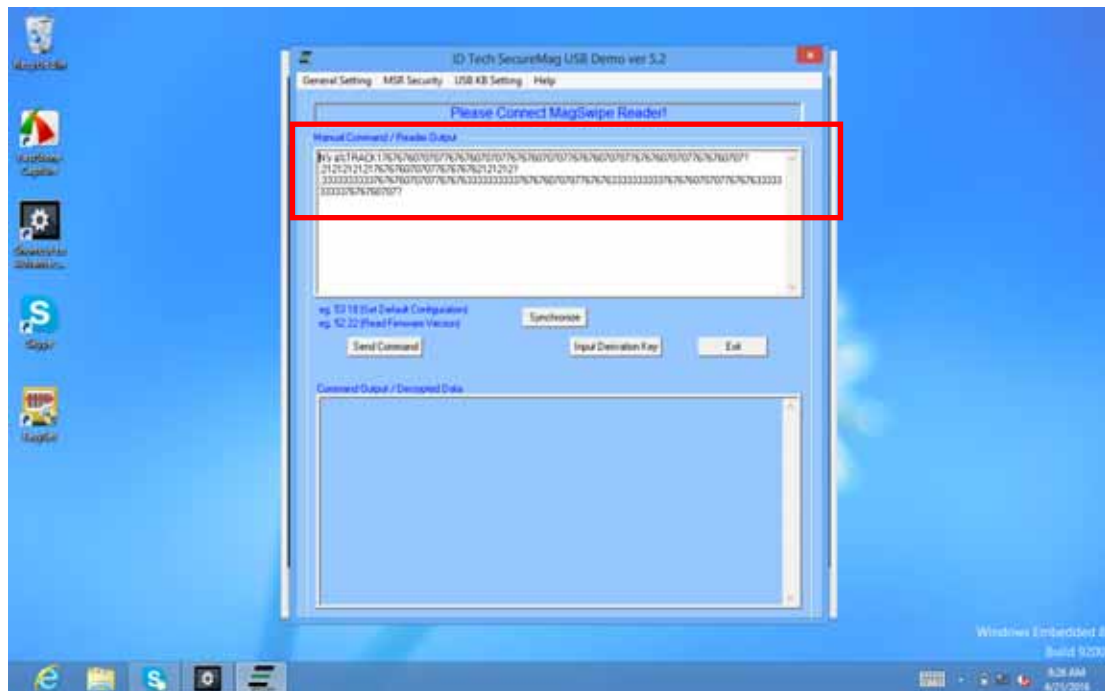
6.2.3 MSR (enable with expansion module / MIT-W101-ACCEM000E)

6.2.3.1 Click MSR icon



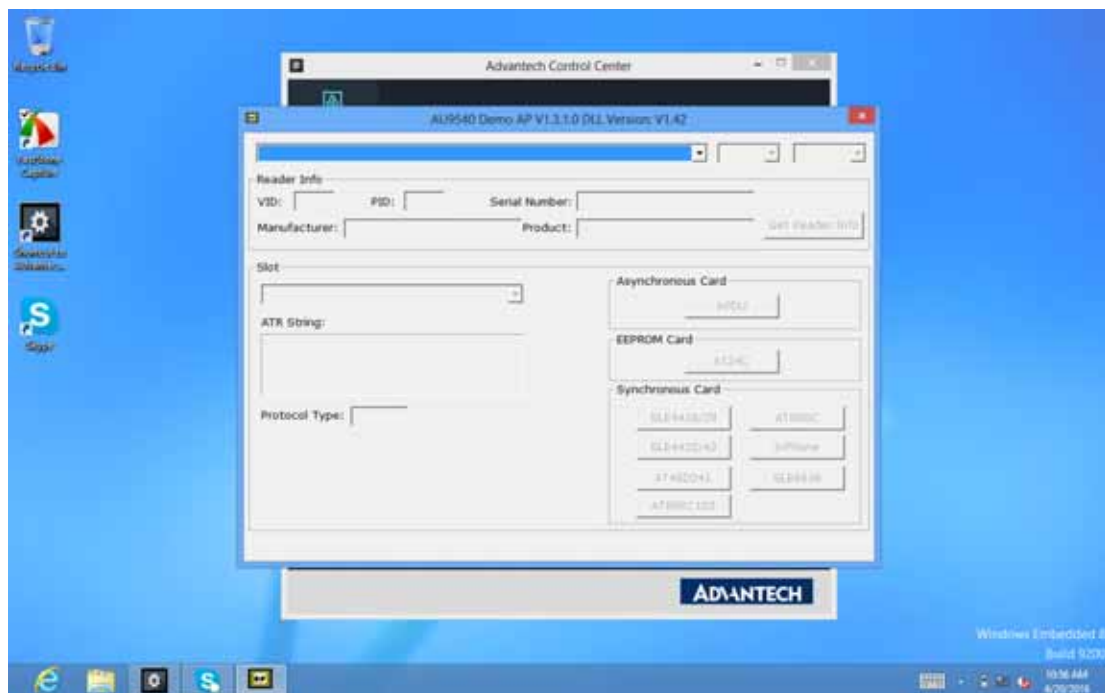
6.2.3.2 Slip MSR card by Expansion module

MSR card Data will be shown in the tool.



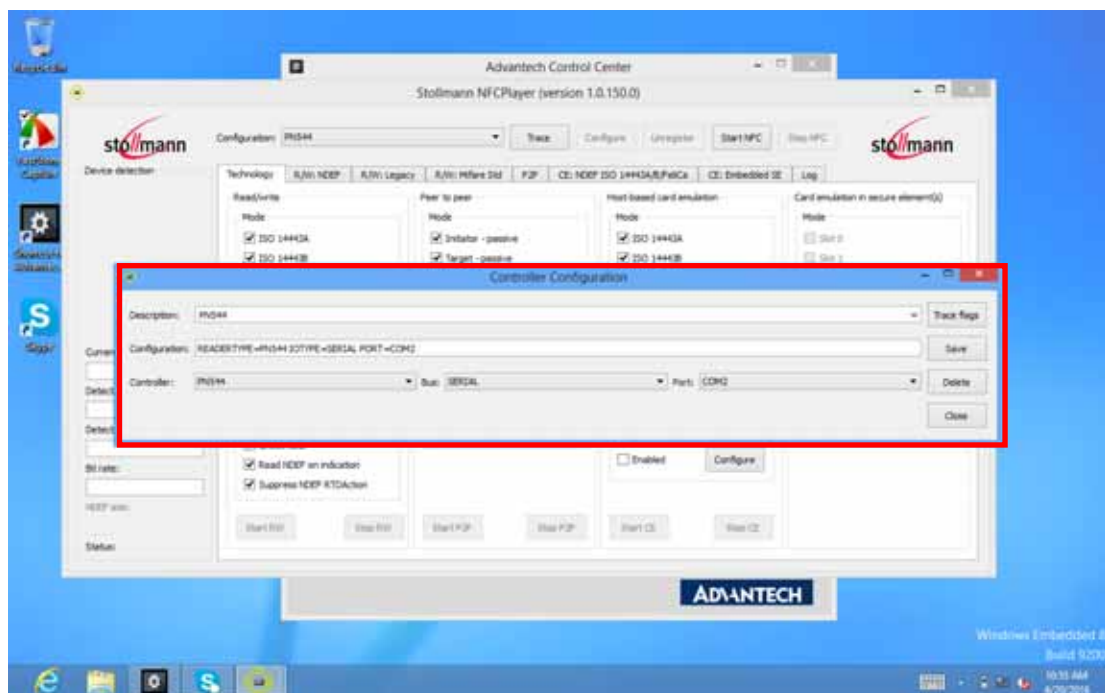
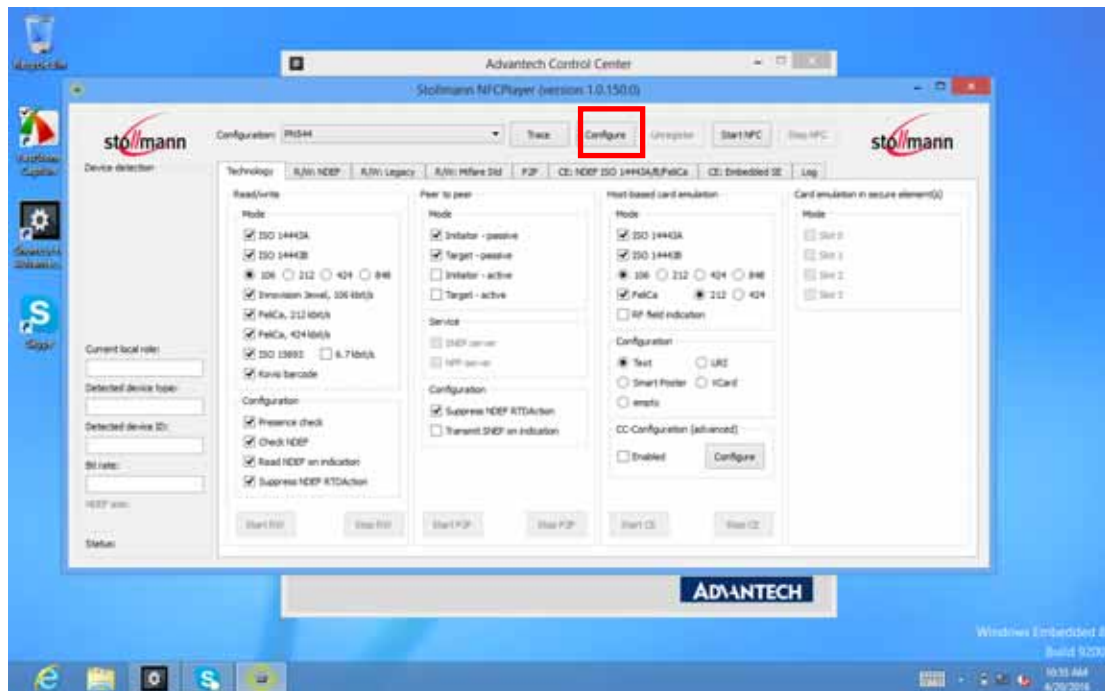
6.2.4 Smart Card (enable with Expansion module)

6.2.4.1 Click Smart Card Reader icon

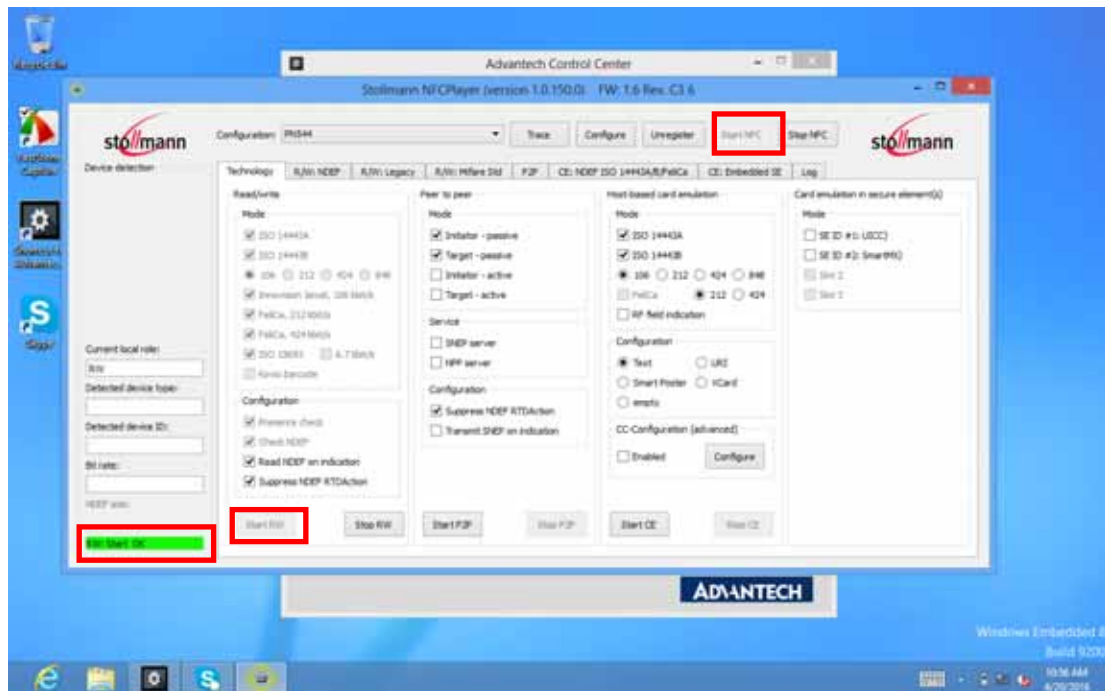


6.2.4.2 Insert Smart Card

Smart Card data will show in "ATR String: "

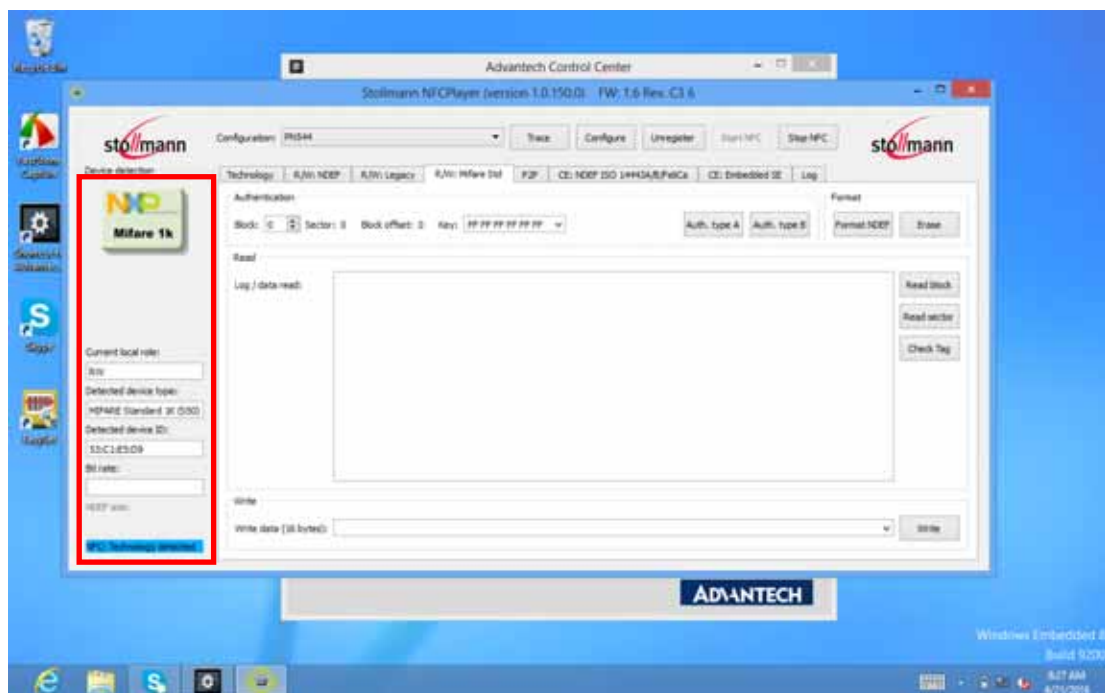


(2) Click “Start NFC” and “Start RW”. Left Icon will turn into “Green”



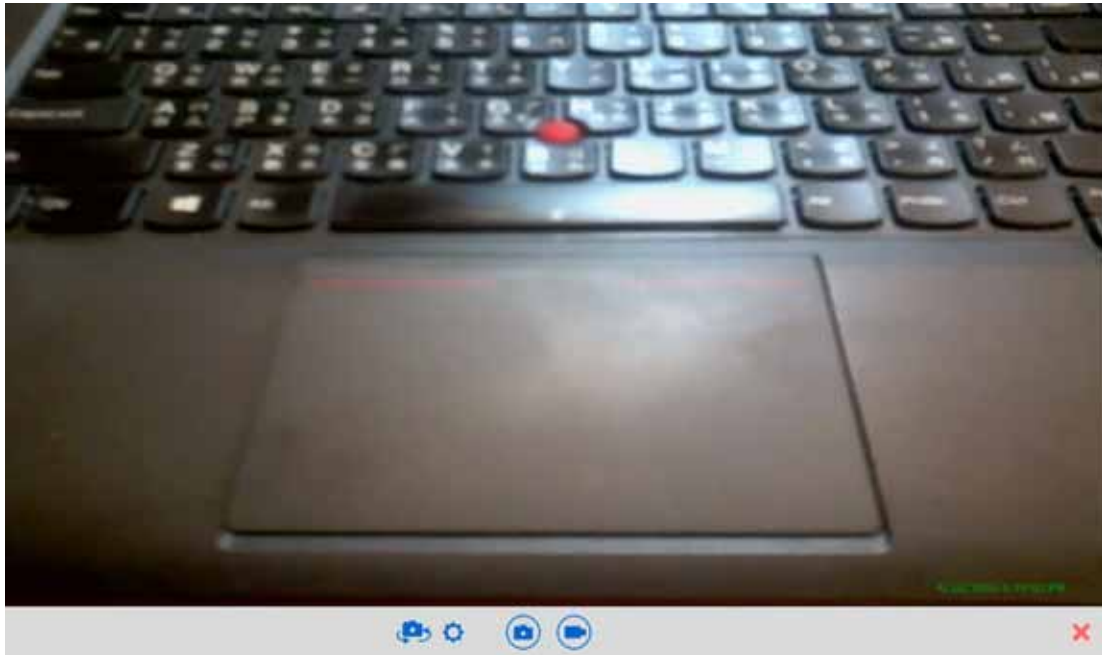
6.2.3.3 NFC reading

(1) NFC was detected.

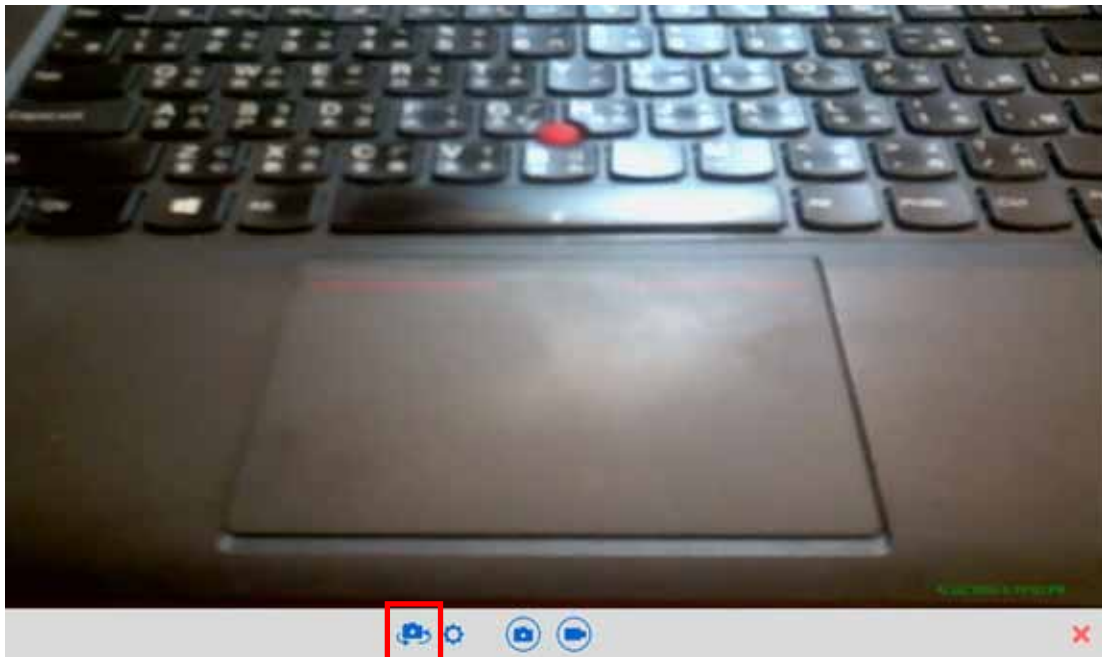


6.2.4 Camera

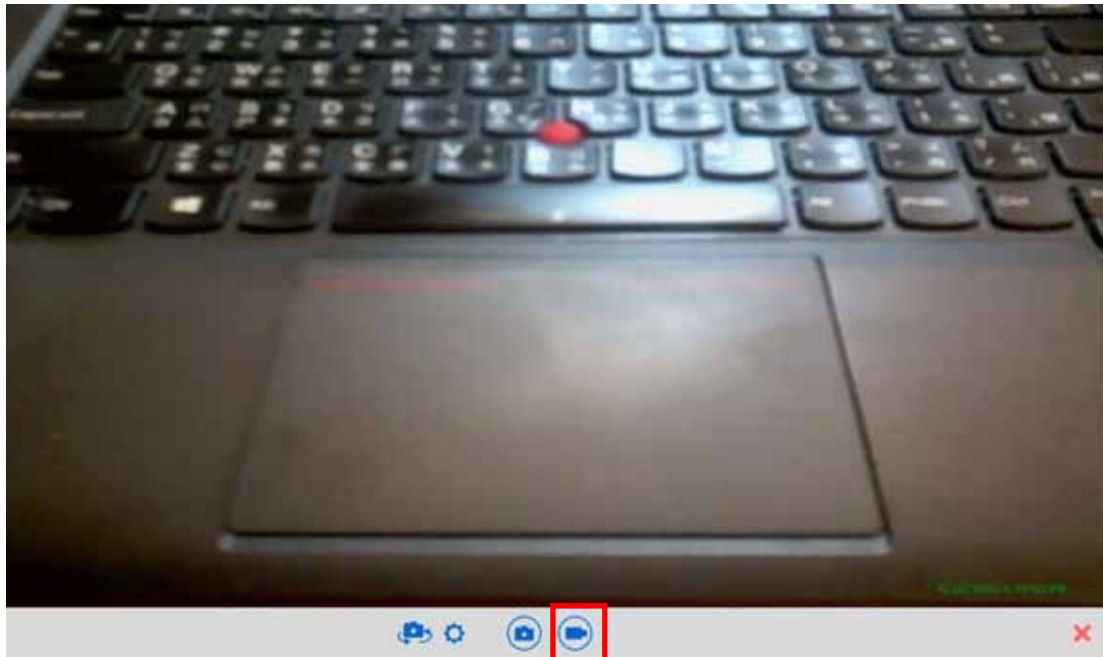
6.2.4.1 Click Camera icon (Default Rear Camera)



6.2.4.2 Switch Front / Rear Camera (Click camera icon to switch camera)

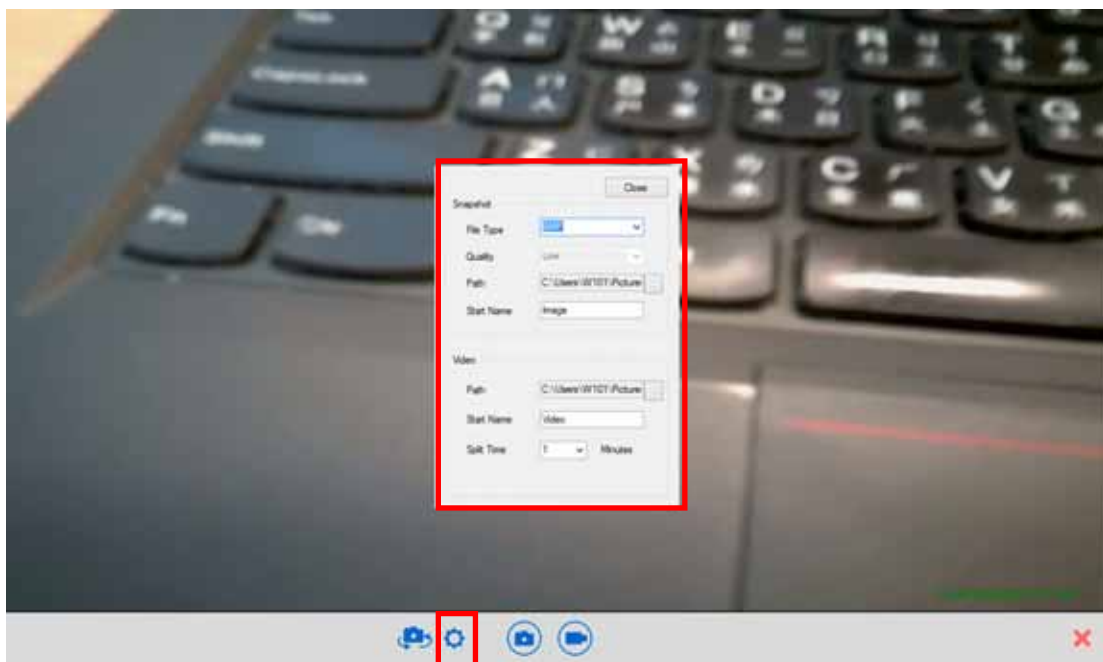


6.2.4.3 Video Recording Click video icon



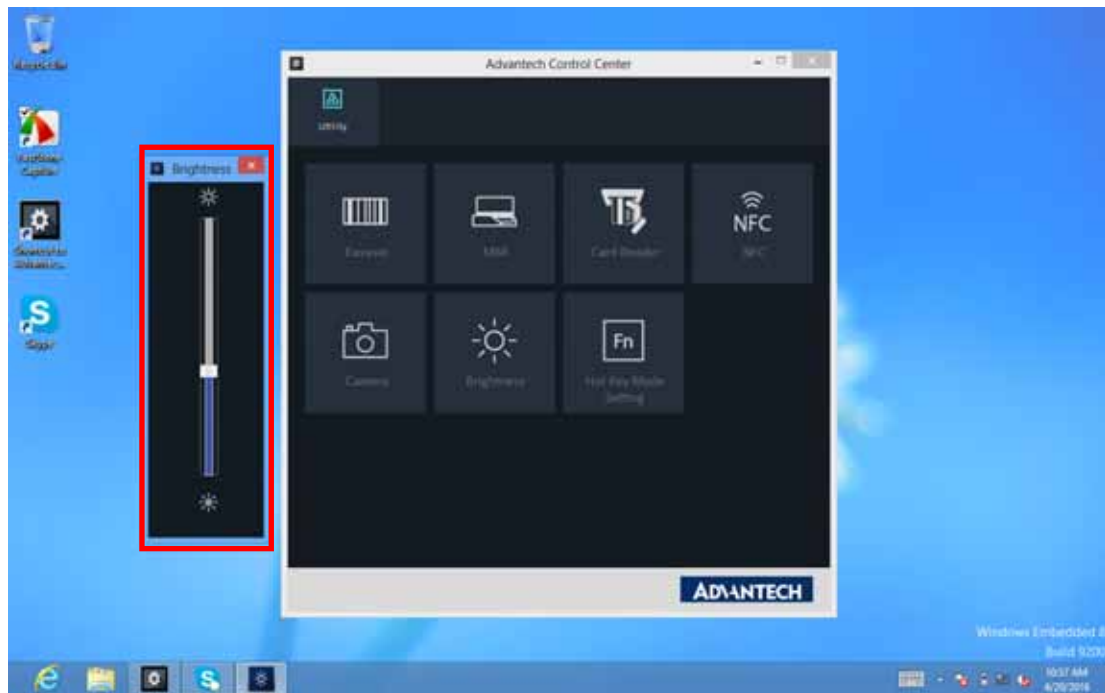
6.2.4.4 Camera Setting

Click setting icon to change file name and path.



6.2.5 Brightness

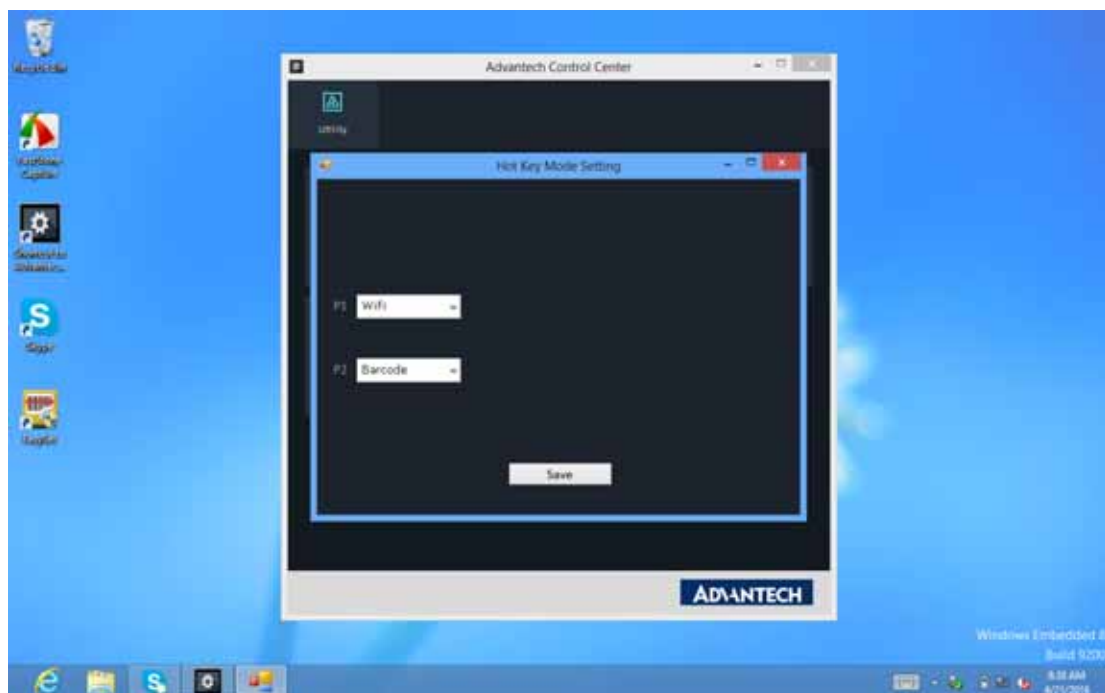
Click Brightness icon to adjust brightness

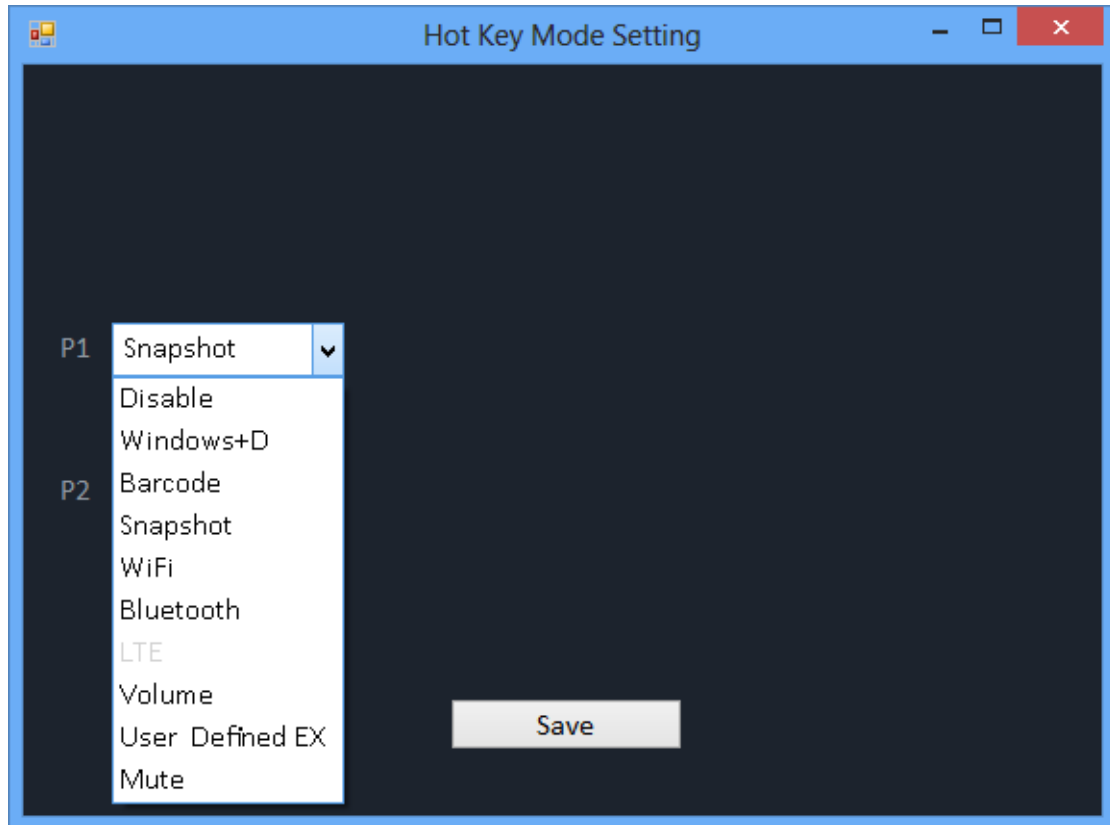


6.2.6 Hotkey Setting

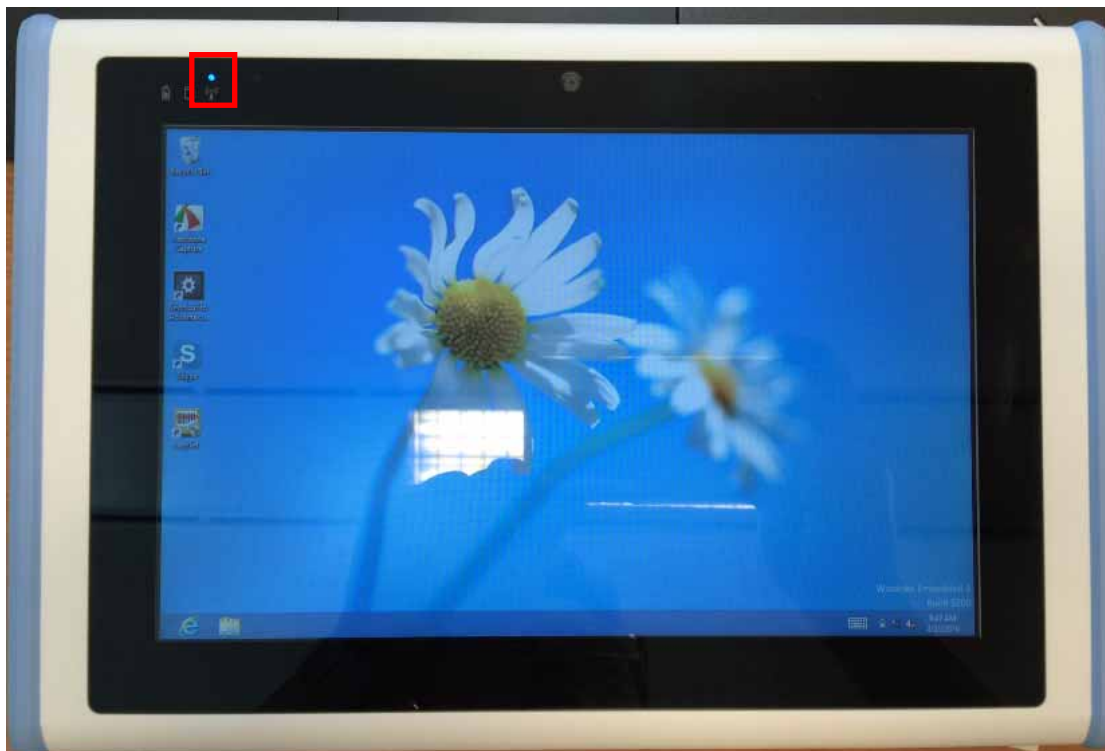
Click Hotkey Mode Setting and select function.

E.g.: Set P1 key as WiFi ON / OFF key.





WiFi LED will turn on / off once P1 key was pressed.



Appendix Specifications

A.1 Specifications

Feature	Description
Operating System	Microsoft Windows Embedded 8 Standard Microsoft Windows 7 Professional for Embedded System (Optional)
Processor	Intel® Celeron® Processor N2930
Max. speed	Quad Core 1.83GHz
Chipset	Intel® Bay Trail-M SoC
Memory	One DDR3L 1333MHz SO-DIMM, up to 8GB
Storage	One mSATA SSD, up to 128GB
Display	10.1" WXGA TFT LCD
Touch Panel	P-CAP Multiple Touch
Application Button	One Power button Two Function programmable buttons for quick selection of applications
Communication	802.11a/b/g/n WLAN built-in with integrated antenna Bluetooth class 2, 4.0 + EDR built-in with integrated antenna
Camera	2.0M Fixed Focus Camera at front 5.0M Auto Focus Camera with Flash LED at rear
Main Battery	Rechargeable Li-ion battery (Advantech MIT101-BATC) Standard battery, 11.1V, 2860 mAh, 3S2P
Medical Power Adapter	AC Adapter: AC 100V-240V 50/60Hz, 1.62A(max) Output : 18Vdc/3.5A(max)/63W, Auto Sensing/Switching worldwide power supply

Feature	Description
Security	1. Password security
I/O Ports	One USB 3.0/ 2.0 One USB 2.0 One HP/MIC combined jack One Micro HDMI type D One DC-in jack One Expansion port 8-pin One Docking port 32-pin
Audio Output	One 1 watt speaker
Expansion Port	One MSR (On optional expansion module) One Smart Card Reader (On optional expansion module)
Physical	295 x 196 x 20mm Approx. 1.1Kg (base configuration); approx. 2.43lbs
Environment	Operational altitude: 3000 meters (700-1060hPa) Storage/Transportation altitude: 5000 meters (500-1060hPa) Operating Temperature: 0°C to 35°C Storage/Transportation Temperature -20°C to 60°C Operating Humidity 10% ~ 90% @40C non-condensing Storage and Transportation Humidity 10%~90% @60C non-condensing 4ft drop onto concrete

Feature	Description
Certification	FCC Class B, CE, CB, UL
Optional Device / Accessories	N/A

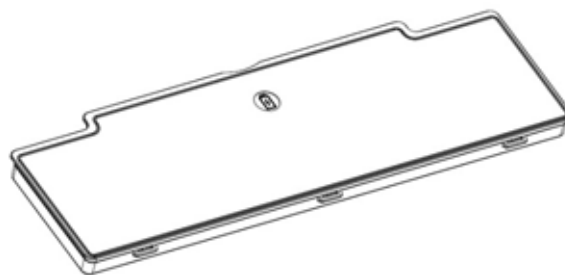
LED Status

DUT on/off	AC adapter in	Internal Battery	Green LED	Amber LED	Remark
Off	X	X	Off	Off	System Off
Off	V	V	Off	On	Battery is charging
Off	V	V	On	Off	Battery is fully charged (100%)
On	V	V	Off	On	Battery is charging
On	V	V	On	Off	Battery is fully charged (100%)
On	V	V	Off	On	Battery Low (< 10 %)

A.2 Optional Accessories

A.2.1 External Battery

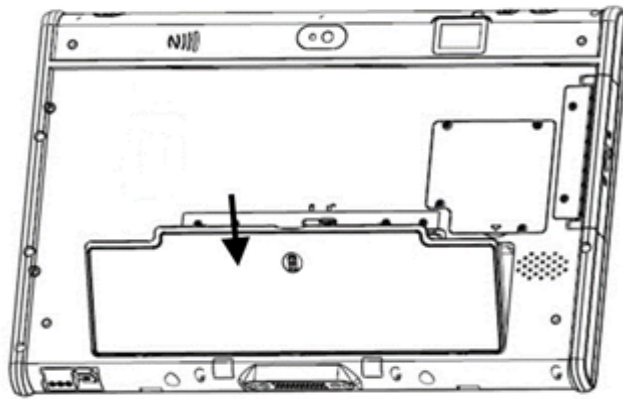
You can use an external battery to extend the power of your MIT-W101-A.



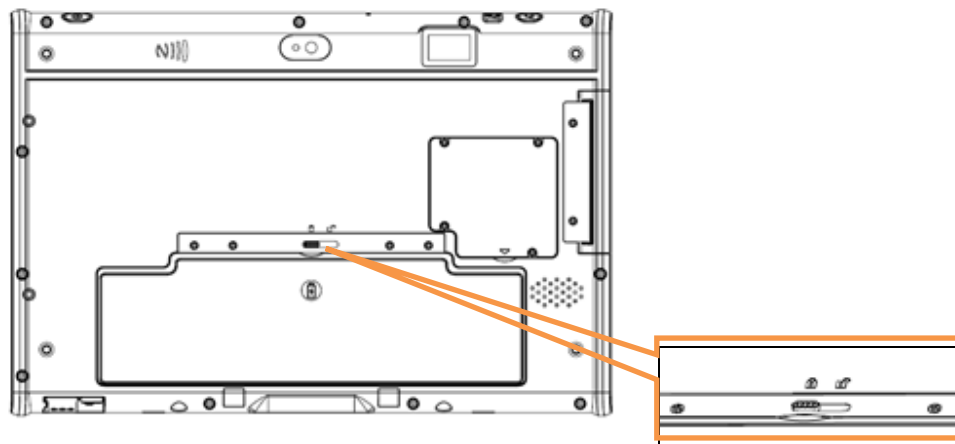
Battery specification: 2860 mAh, 11.1V

A.2.1.2 Installing the External Battery

1. Align and insert the battery on the MIT-W101-A.



2. Lock to secure the battery once it is properly to be inserted.

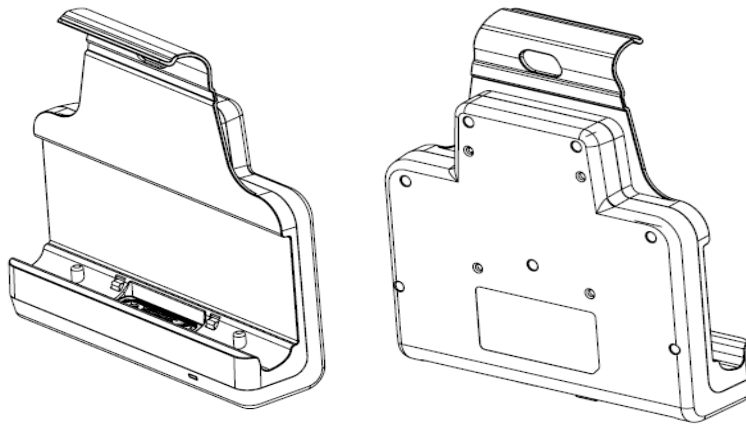


A.2.1.2 Removing the External Battery

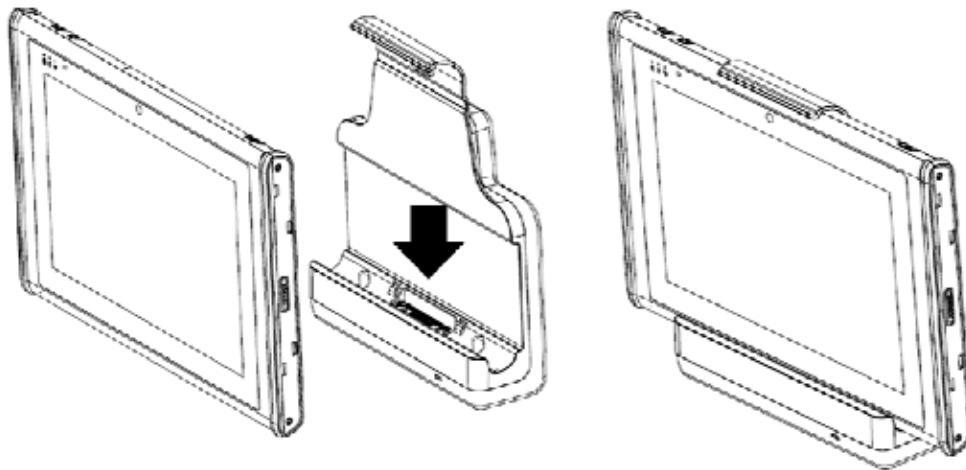
Repeat the above steps in reverse order to remove the battery.

A.2.2 Docking Station

You can use the docking station to dock the MIT-W101 to the place where you need via standard 75 x 75 mm VESA hole on rear side. When docked, you can transfer data from your MIT-W101 to another PC by COM port or USB port.

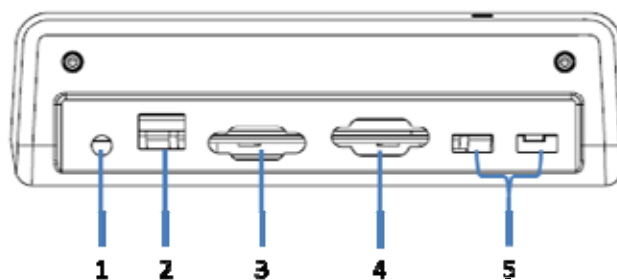


Attach the MIT-W101 to the docking stand as shown.



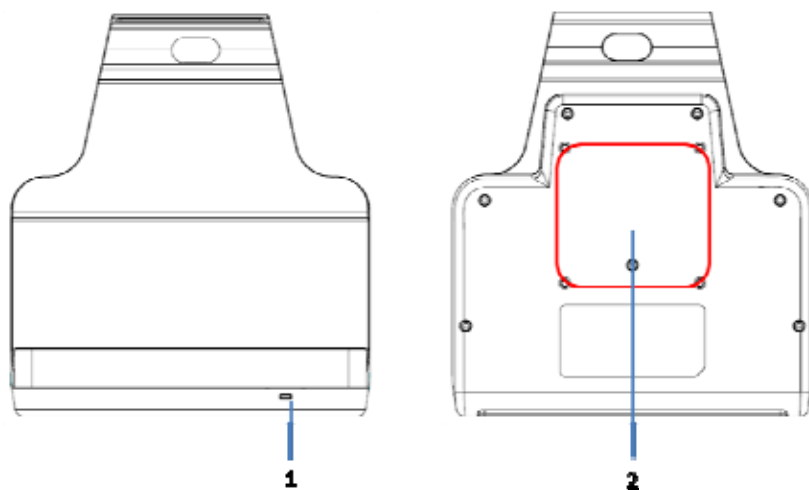
A.2.2.1 Docking Connectors

See below for the rear view of the docking and a description of all ports and connectors.



No.	Component	Function
1	Power jack	Connect the AC adapter to provide power.
2	LAN port	Connect an RJ-45 cable to access LAN connection.
3	VGA port	Connect to display for 2 nd display output
4	COM port	Connect a serial cable to connect to another PC.
5	USB port	USB 2.0 port x 2 , Connect USB connectors to transfer data.

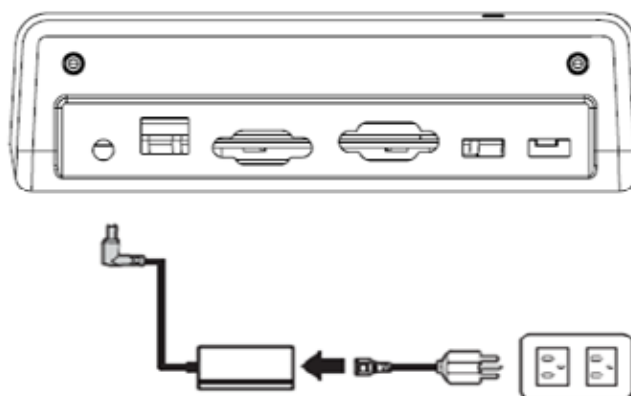
See below for the front view of the docking and a description of all ports and connectors.



No.	Function
1	LED indication / Device connected
2	Standard 75x75 VESA hole

A.2.2.2 Connecting Power to the Docking

Connect the AC power adapter to the docking and the mains as shown below.



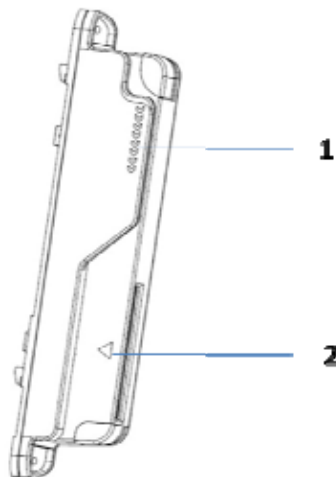
A.2.2.3 Docking Specifications

Feature Description

Feature	Description
Product Name	MIT-M101 Docking
Model Number	MIT-M101-ACCVD
External I/O Interfaces	One LAN port One COM port One VGA port Two USB 2.0 host connectors One DC-in
Power	AC Adapter: AC 100V-240V 50/60Hz,1.62A(max) Output : 18Vdc/3.5A(max)/63W
Physical Size	224.7 (H) x 200 (W) x 56.4 (D) mm

A.2.3 Expansion Module

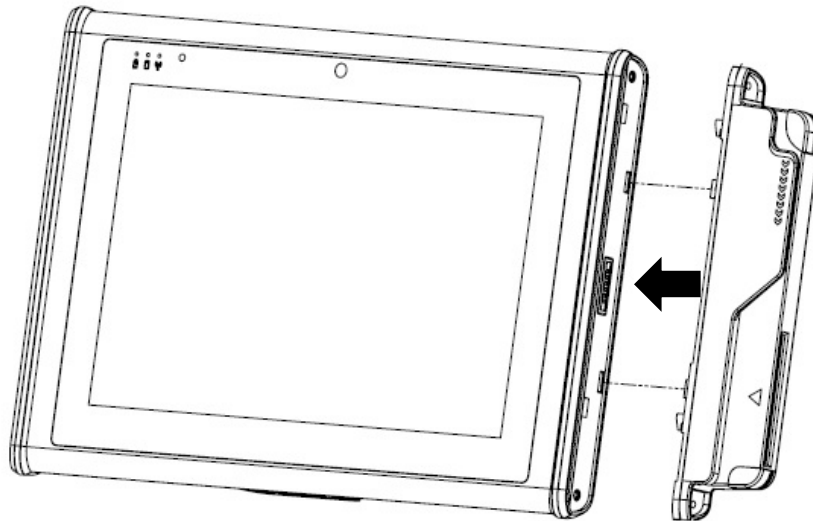
Built-in MSR and Smart Card Reader in expansion module.



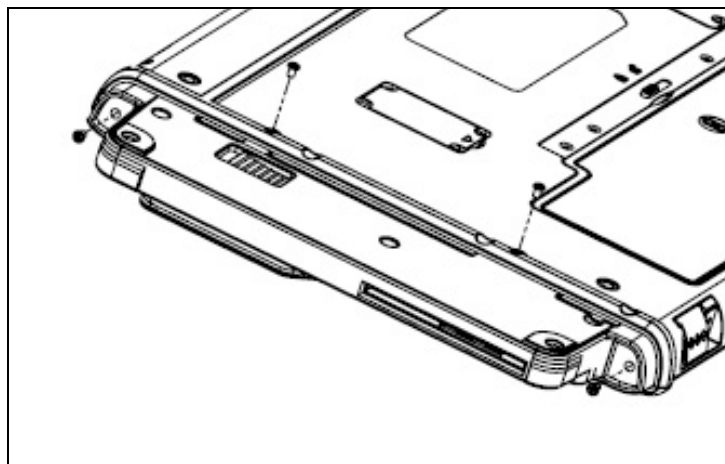
No.	Function
1	MSR
2	Smart Card Reader

A2.3.1 Installing an Expansion module

1. Make sure the system is turned off.
2. Attach the expansion module connector to the MIT-W101.



3. Screw to secure the expansion module onto the MIT-W101.



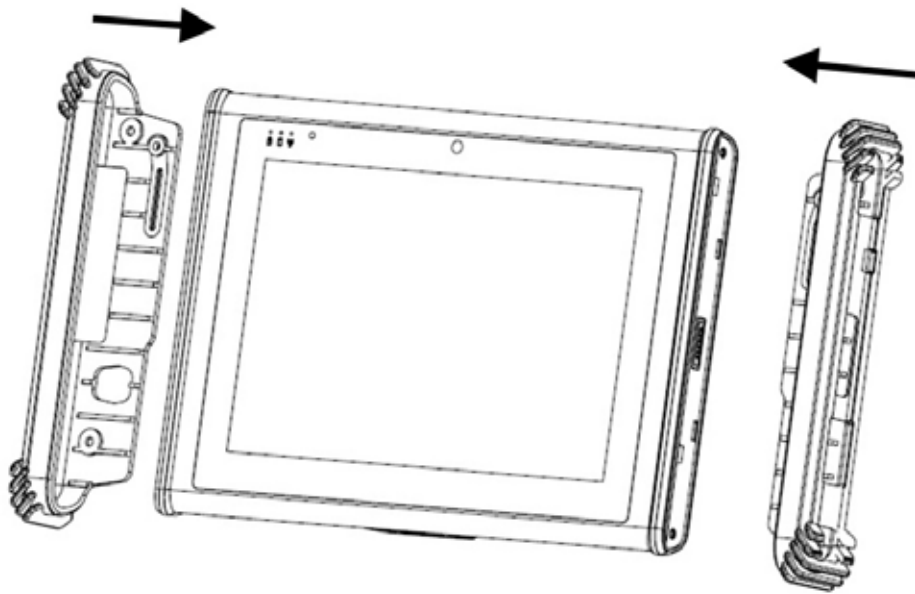
Please assure the expansion module was put on the right position and the screws was fastened when install the module on device. The expansion module might not work if the device was not installed probably or damage by drop.

A2.4 Rubber Bumpers

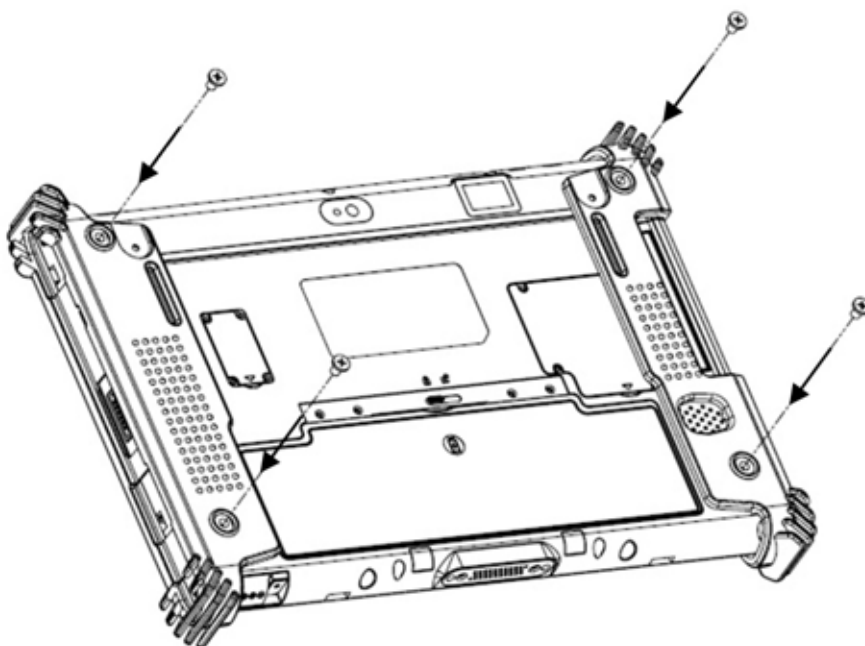
To protect the housing case of MIT-W101, user can install the rubber bumpers.

A2.4.1 Installing the Rubber Bumpers

1. Install the rubber bumpers on the left and right side of the MIT-W101.
2. Make sure the rubber bumpers are aligned and locked on the indents.



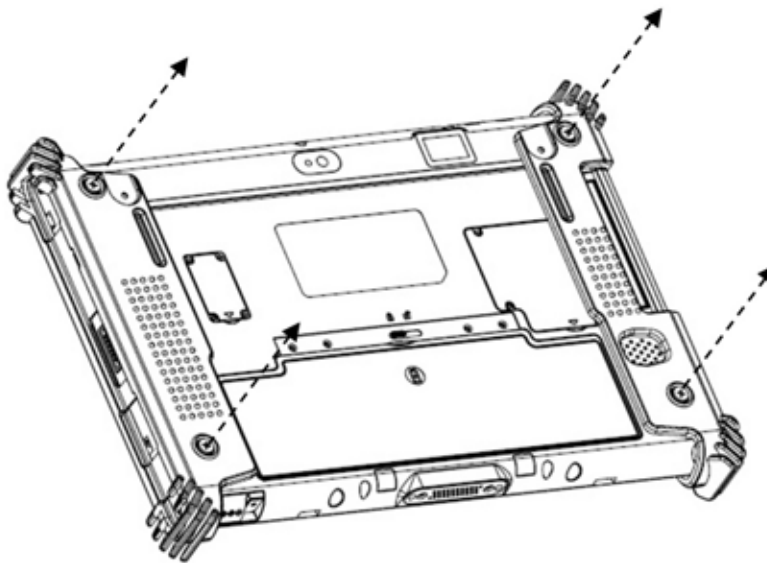
3. Screw the rubber bumpers on left and right properly into the MIT-W101.



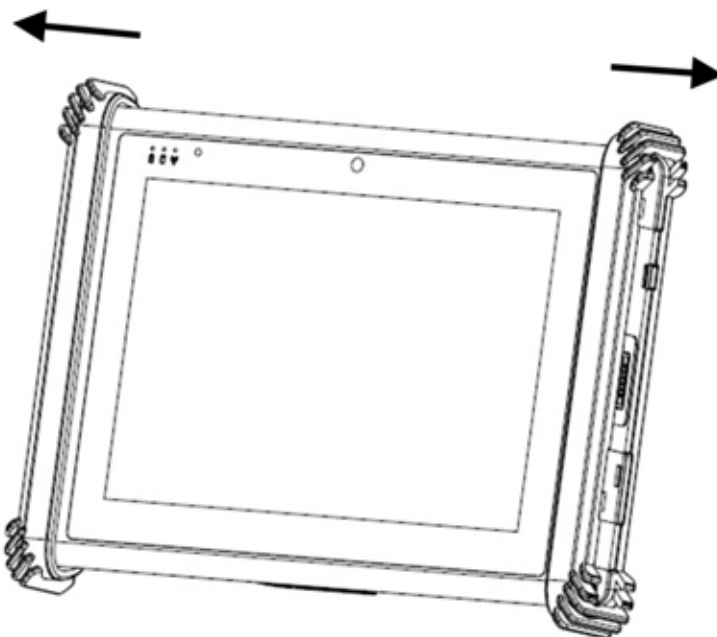
Note 	The Rubber bumper could provide well drop protection when device fall from high place. Please assure the rubber was put on the right position and the screws was fastened when install the bumper on device.
--	---

A2.4.2 Removing the Rubber Bumpers

1. Unscrew the rubber bumpers from the rear of the tablet PC.



2. Remove the rubber bumpers on the left and right.



A.3 Installing an SSD

A.3.1.1 Inserting an SSD

You can insert an SSD to store data, which needs to be later transferred to another machine, or to simply expand the storage capacity of the MIT-W101-A.

1. Open the SSD card compartment cover.



2. Insert the SSD, facing upwards, until it clicks into place.



3. Screw and fix SSD.



4. Close the SSD compartment cover.



A.3.1.2 Removing an SSD

1. Open the SSD compartment cover.



2. Unscrew and remove SSD from the slot.



3. Close and screw the SSD card compartment cover.

