Mobile Computer MIT-W101-A



User Manual

MIT-W101-A

Ver 1.0

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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 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.



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.



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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

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

| Note | Denotes information that must be observed. |
|----------|---|
| IR | Failure to do so may result in personal harm or damage to |
| O | 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.

| Note | Screens used in this manual are for illustrative purposes |
|------|---|
| IR | only. Actual screens may vary depending on your product |
| 0 | 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 k | outtons and | its function. |
|---------------|---------------|--------------|-------------|---------------|
|---------------|---------------|--------------|-------------|---------------|

| Button | Name | Function |
|-----------|----------|--|
| (P1) (P2) | 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 |
|------|--|
| IR | contract with a wireless service provider. Contact a |
| 0 | 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.

- Start **Bose Service** é \sim 24 . 孟 Settings :-) -• Tuesday February 26 38 5: 2
- 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.



| Search | |
|----------|---|
| Settings | |
| | ×р |
| Apps | 0 |
| Settings | 4 |
| Files | 5 |
| | Search Settings Mpps Settings Settings Files |
| 😋 Weters | View devices and paraters |
|------------------------------------|---|
| Contraction communication on or of | Field and the networking and connections problems |
| Connect to a network | Divite Maraget |
| Convectors | Sitt up a connection or network |
| Sun flight mode on or aff | Revealing and replace trethwork problems |
| | Www.retwork.connections |
| | Update device drivers |

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.

| Settings Results for "E | 3luetooth " |
|---------------------------------------|--------------------------------|
| Add Bluetooth device | Change Bluetooth settings |
| Turn wireless communication on or off | View devices and printers |
| | Set up a connection or network |

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.

| Note | It is recommended that you use a passkey to prevent |
|------|---|
| Ø | 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 distributer, 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 | 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 | 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 | | The model MIT-W101 SERIES uses RF | | | | | |
| CISPR 11 | | 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 | | The model MIT-W101 SERIES is suitable | | | | | |
| CISPR 11 | | for use in all establishments, including | | | | | |
| Harmonic emissions | | domestic establishments and those | | | | | |
| IEC 61000-3-2 | | directly connected to the public | | | | | |
| Voltage fluctuations/ | | low-voltage power supply network that | | | | | |
| supplies buildings used for dom | | | | | | | |
| IEC 61000-3-3 | | purposes. | | | | | |
| | | | | | | | |

| R | Recommended separation distances between | | | | | |
|-------------------------------------|--|-----------------------------|--------------------------|--|--|--|
| portable and mobile | RF communications equi | pment and the model MIT- | W101 Series | | | |
| The model MIT-W101 series is inte | nded for use in an electrom | agnetic environment in whic | ch radiated RF | | | |
| disturbances are controlled. The cu | ustomer or the user of the m | odel MIT-W101 series can l | nelp prevent | | | |
| electromagnetic interference by ma | aintaining a minimum distan | ce between portable and mo | bile RF communications | | | |
| equipment (transmitters) and the m | odel MIT-W101 series as re | commended below, accordi | ng to the maximum output | | | |
| power of the communications equip | oment. | | | | | |
| Rated maximum output power | Separation dista | nce according to frequen | cy of transmitter | | | |
| of transmitter | m | | | | | |
| W | 150 kHz to 80 MHz 80 MHz to 800 MHz 800 MHz to 2,5 GHz | | | | | |
| | d = 1,2 🗸 🕨 | d = 1,2 P | d = 2,3 JP | | | |
| 0.01 | 0.12 | 0.12 | 0.23 | | | |

| | | • | • |
|------|------|------|------|
| 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.

| | IEC | Compliance | Electromagnetic environment – guidance |
|---------------|--------|------------|---|
| Immunity test | 60601 | level | |
| | test | | |
| | level | | |
| | | | 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 |
| Conducted RF | 3 | | |
| IEC 61000-4-6 | Vrms | | d = 1,2 √ ₽ |
| | 150 | Vrms | - |
| | kHz | VIIIO | |
| Padiated PE | to 80 | | d = 1.2 P 80 MHz to 800 MHz |
| | MHz | | |
| IEC 61000-4-3 | | | d = 2.3 1 800 MHz to 2.5 GHz |
| | | V/m | |
| | 3 V/m | | where P is the maximum output power rating of the |
| | 80 | | transmitter in watts (W) according to the transmitter |
| | MHz | | manufacturer and d is the recommended separation |
| | to 2.5 | | distance in metres (m). |
| | GHz | | |
| | | | 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:

 Image: the following symol symbol:

 <td

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"

| <u>×</u> | La constantina de la constanti | Advantach (| anted Center | | |
|----------|--|-------------|--------------|-----------|----------------------------------|
| | | 1 | B | NFC | |
| S | - Č | -ờ:- | Fn | | |
| | | | | | |
| | | | | ADIANTECH | |
| 6 🗎 🖸 S | | | | | State - Color Color And Approved |

6.2.2 Barcode reader

1990 - C

- 6.2.2.1 Barcode reader setting
- (1) Select Product "ED40", click ok

| | The Las Vew Packet Comm | uniation Voter Traff. C | 10 100 100 | iyoet | alal | CARN | - 0 | |
|------------|--|----------------------------|------------------|---------|-----------|----------------------------|-----|---|
| | 100 g 10 100 | | Select | product | | | | î |
| | C 1.Using ExcySet | Decadera | | 4 | 3 | 1 | - 1 | |
| | 3. Interface 4. Data transmission saffing: | Tanfold scame's | 8000 | \$54 | EV12 | EV-14 | | |
| 146 Gal | 5 Symbologies 6 Operating settings | Stat engines | 1 | | | | | |
| | 7 mage settings 8 Configuration modes and | Rendhald computers | Evra | 0-21 | e - Ffugt | | | |
| | - Office whip: | | | | IT 0+8w | uta . | | |
| | 1. Select your internet product in Ex- choose Delect) 2. Double-clock the series commanity while when the series commanity while other the series whent and read- your & comman. | 🛱 Show the window at start | w) | | ace | | | |
| | - | l | - | | | | | |
| | C-Program Files (ubli)IntermecE | accent. | 10 | 54 Pa | ge: 1/1 | Get Admit remain of Lender | D. | |

(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)

| • | | | Н | ot Key | Mode | Settin | ıg | | - | x |
|----|-----------|---|---|--------|------|--------|----|--|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| P1 | Snapshot | ~ | | | | | | | | |
| | | | | | | | | | | |
| | | _ | | | | | | | | |
| P2 | Barcode | ~ | | | | | | | | |
| | Disable | | | | | | | | | |
| | Windows+D | | | | | | | | | |
| | Barcode | | | | | | | | | |
| | Snapshot | | | | | | | | | |
| | WiFi | | | | Save | | | | | |
| | Bluetooth | | | | | | | | | |
| | LTE | _ | | | | | | | | |

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

| | | Advantech Control Center | - 1 101 |
|--------|--|--|-------------------------|
| S S | TPAD070395 TPAD070395 TPAD070395 TPAD070395 TPAD070395 TPAD070395 TPAD070395 TPAD070395 | en e | NFC NAde Setting - D |
| é 🛤 | | 2 Barcode - | Seve |

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

6.2.3.1 Click MSR icon

| Ω. | | | | |
|--|------------------------------|---|--|---------------------|
| Manageria. | 5 | ID Tech SecureMag USII Demo ver 5.2 | | |
| | General Setting MSR Security | USB KB Setting Help | | |
| - | | Please Cornect MagSwipe Reader! | | |
| 7 | Hanad Commit / Family D. | en en la constante de la const En la constante de la constante | | |
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| Constanting Street Stre | | | | |
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| ~ | es © 22 Pead Falser Ver | aut Spectroste | (and the second se | |
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| and the second | | | | |
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| And Party Street Street | | | | |

6.2.3.2 Slip MSR card by Expansion module MSR card Data will be shown in the tool.

| 1 | | | |
|--|--|--|-------------------------------------|
| discussion in the second s | 1. | ID Tech SecureMag USII Demo ver 5.2 | |
| | General Setting | MSR Security USB KB Setting Help | |
| - | | Please Cornect MagSwipe Reader! | |
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| Automatic Capital | Ny 4176401 21212221217 | 300-0019776-0-00107076-0-001076-0-00176-0-000776-0-00107 0-0-00100776-0-0-011227 0-0-00100776-0-0-011227 | |
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| | | | Windows Embedded I |
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| | | | 1000 C 40 4/26/2014 |

6.2.4 Smart Card (enable with Expansion module)

6.2.4.1 Click Smart Card Reader icon

| | | AU9540 Demo AP VI 110 DU | Version VI.42 | | |
|------------------|-------------------------|-----------------------------|-------------------|-----------------|-----------------|
| | Finader Info | | I | 9 9 | |
| 0 | VID: Manufacturer: | PID: Senal Number: Product: | | Set reader into | |
| anitza Siliza | Slot ATR Sbing: | 2 | Asynchronous Card | | |
| | Protocal Type: | | Synchronous Card | | |
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| | _ | | ADIA | NTECH | |
| | | | ADVA | NTECH | |
| 6 📖 🖸 | | | | | 888 · 3 · 4 · 3 |

6.2.4.2 Insert Smart Card

Smart Card data will show in "ATR String: "

| 1 | | | | |
|----------------------|---|----------------------------|-----------------|--------------------|
| ale-actual | Advante Advante | sch Control Center | A 10 100 | |
| 1999 - S | | | | |
| A | EI AU9540 Deno AF | VI.1.1.0 DIL Veneor: VI.42 | | |
| Victoria. | Mask Menu 158 Smart Card Reader 0 | • | E 1 25 | |
| Cons. | Reader Infe | e constant. | | |
| <u>,0</u> | Manufacturer: | voduct: | Get Reader Info | |
| Skanstan Shallion | Slot | 12010-000 | | |
| 0 | | Asynchronous Card | - 1 | |
| 2 | ATR Sbing: | Property Party | | |
| 5057 | 38 6E 00 | LEHRON Card | | |
| - | | Synchronous Card | | |
| ** | Protocel Type: T0 | 010 0410/270 | atmic [| |
| (support | | 611+42D-43 | juliane. | |
| | | 37402041 | 0404434 | |
| | | ATHIRTON | | |
| | VID:9562 Year:2013 Month:03 Day:21 Ver:0115 | 111-2 | | |
| | | ADAAN | ITECH | |
| | | | | Windows Embedded A |
| 6 📖 S 🖸 | | | | 100 · 2.0 • 40.00 |

6.2.3 NFC

6.2.3.1 Click NFC icon

| | | | | | 101500 | - | | | |
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| | | | | | | | | | |

6.2.3.2 NFC setting

(1) Click Configure, select COM port and save.

| | | | Stolmann NPC | Player (version | 1.0.150.0) | | | |
|-----------------------|---------------------------------|--|--------------------------------|-----------------|-----------------------|-----------------|------------------------|----------------------|
| stollmann | Configuration (PESH) | | | 744 | Centore Greep | Swiw? | (Institution) | stol/mann |
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| | Configuration | | E Suprem 10 | EF RTDAction | C ensta | | | |
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| | | Stolimann NFCPlayer (s | ersion 1.0.150.0) | - 8 | 10.00 |
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| Late | Read 1007 on indicators | | | | |

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

| | Stelling | inn NFCPlayer (version 1.0.150.0) | FW: 1.6 Res. Cl 6 | |
|---|---|--|--|--|
| stollmann | Configuration PriSH | •][: hes:[[| Centeure Unrepoler, Duriting | surver stollmann |
| Current local rules Rev Pro Detected device Topic Detected device Topic | Technology RAMILSEE* RAMILSEE Read/write Mode Note Mode | cy Anni Hiller Still (F2) (C) 10 Pert 10 perc Mod 2 Status - percine 2 Strapt - percine 1 Strapt - active 3 Enitot 2 Strapt - active 3 Enitot 1 Status - active 2 Strapt - active 3 Enitot 2 Strapt - active 3 Enitot 2 Strapt - active 3 Enitot 2 Strapt - active 3 Enitot 3 Strapt - active 3 Strapt - | 201 30 Jane GAULTINGCa CCC Detailed Set Text Stated Levid enclaname Text 201 31 Jane GAU 201 31 Jane GAU | 22. Log Card enclana n encure element(k) Mede ☐ 55 10 #12 (Soc 7) ☐ 59 10 #2 (Soc 96) ☐ 59 12 ☐ 30 12 ☐ 30 12 |
| Ninke: 427 sm | Character Read (CCP on inductor) | Be172 No. 12 | Drabled Configure | |
| in tel oc | | | ADIANTE | сн |

6.2.3.3 NFC reading

(1) NFC was detected.

|) | | Stollmann NFCPlayer (vers) | on 1.0.150.01 | FW: 1.6 Res. C3 | 6 | | | |
|--|-------------------------|------------------------------|---------------|-----------------------|------------|-----------------|----------------|--|
| stol/mann | Configuration PhDH4 | | Two Co | Intere Unvegele | t.] (Per | Starter | sto | Imann |
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| | Log/data-web | | | | | | | Realizab |
| | a na cite da de la seco | | | | | | | Read sector |
| Current local role: | | | | | | | | Check Tag |
| Anv. | | | | | | | | Card Transaction |
| Peterded Jerse type: H04405 Standard 3K (550) | | | | | | | | |
| Detected device ID: | | | | | | | | |
| Bilints: | | | | | | | | |
| MIT am | | | | | | | | |
| | write state (18 kytes): | | | | | | y. | 2010 |
| Mr. Schwarz, aralised | | | | | | | | |
| | | | | | ADA | NTECH | | |
| | _ | _ | | | | | | |

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.

| and the | | | | Advantech | Control Center | | • | | |
|----------|---|---|------------|-----------|----------------|--------|-----|----------|-----------------------|
| | | | | Bat Key M | Asile Setting | - 1 | | | |
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| e | S | 0 | | | | | | 89.4 | 8.3E.AAA 4/25/2016 |



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



Appendix Specifications

A.1 Specifications

| Feature | Description |
|-----------------------|---|
| | Microsoft Windows Embedded 8 Standard |
| Operating System | 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 |
| | One Power button |
| Application 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 |
| | 2.0M Fixed Focus Camera at front |
| Camera | 5.0M Auto Focus Camera with Flash LED at rear |
| | Rechargeable Li-ion battery (Advantech MIT101-BATC) |
| Main Battery | Standard battery, 11.1V, 2860 mAh, 3S2P |
| | AC Adapter: AC 100V-240V 50/60Hz,1.62A(max) |
| Medical Power Adapter | Output : 18Vdc/3.5A(max)/63W, Auto Sensing/Switching |
| | worldwide power supply |

| Feature | Description |
|----------------|--|
| Security | 1. Password security |
| | One USB 3.0/ 2.0 |
| | One USB 2.0 |
| | One HP/MIC combined jack |
| I/O Ports | 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 Dort | One MSR (On optional expansion module) |
| | One Smart Card Reader (On optional expansion module) |
| Dhysical | 295 x 196 x 20mm |
| Physical | Approx. 1.1Kg (base configuration); approx. 2.43lbs |
| | Operational altitude: 3000 meters (700-1060hPa) |
| | Storage/Transportation altitude: 5000 meters (500-1060hPa) |
| | Operating Temperature:0°C to 35°C |
| Environment | Storage/Transportation Temperature -20°C to 60°C |
| Environment | 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 / | N/A |
| Accessories | |
| | |
| | |
| | |

LED Status

| DUT | AC | Internal | Green | Amber | Remark |
|--------|---------|----------|-------|-------|--------------------------|
| on/off | adapter | Battery | LED | LED | |
| | in | | | | |
| Off | Х | Х | Off | Off | System Off |
| Off | V | V | Off | On | Battery is charging |
| Off | V | M | On | Off | Battery is fully charged |
| OII | V | v | OII | OII | (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.



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 | LICP 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 |
| | One LAN port |
| | One COM port |
| External I/O Interfaces | One VGA port |
| | Two USB 2.0 host connectors |
| | One DC-in |
| Dowor | AC Adapter: AC 100V-240V 50/60Hz,1.62A(max) |
| rowei | 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.



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 SDD 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 SDD, facing upwards, until it clicks into place.



3. Screw and fix SSD.



4. Close the SDD 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.

