

User Manual

UTC-W101E

Trusted ePlatform Services



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Declaration of Conformity

FCC Class B

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

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Technical Support and Assistance

- 1. Visit the Advantech web site at www.advantech.com/support where you can find 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

Warning! 1. Input voltage rated 12-19 VDC, 3.75 ~ 2.63 A (DC Mode).

2. 3. Packing: please carry the unit with both hands, handle with care. Maintenance: to properly maintain and clean the surfaces, use only approved products or clean with a dry applicator.

Safety Instructions

- 1. Read these safety instructions carefully.
- 2. Keep this User Manual for later reference.
- 3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. 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 may cause damage.
- 7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
- 8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- 9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- 10. All cautions and warnings on the equipment should be noted.
- 11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
- 12. Never pour any liquid into an opening. This may cause fire or electrical shock.
- 13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
- 14. If one 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 the user's manual.
 - e. The equipment has been dropped and damaged.
 - f. The equipment has obvious signs of breakage.
- 15. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY GO BELOW -20° C (-4° F) OR ABOVE 60° C (140° F). THIS COULD DAMAGE THE EQUIPMENT. THE EQUIPMENT SHOULD BE IN A CONTROLLED ENVIRONMENT.
- 16. If your computer is losing dramatic time or the BIOS configuration reset to default, the battery has no power.

Caution! 1.

1. Do not replace power adaptor yourself. Please contact a qualified technician or your retail.



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

- 17. CLASSIFICATION:
 - Supply by Class I adapter
 - No applied part
 - Continuous Operation
 - Not AP or APG category
- 18. Follow the national requirement to dispose unit.
- 19. Maintenance: to properly maintain and clean the surfaces, use only the approved products or clean with a dry cloth.
- Contact information: No.1, Alley 20, Lane 26, Rueiguang Road Neihu District, Taipei, Taiwan 114, R.O.C TEL: (02)27927818
- 21.



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

- 22. This equipment shall not be used as a life support system.
- 23. 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.
- 24. User not to connect SIP/SOPs and the patient at the same time.
- 25. The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70dB (A).

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

Note!

Attention, consult ACCOMPANYING DOCUMENTS.



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Introduction

This Chapter briefly introduces the UTC-W101E product.

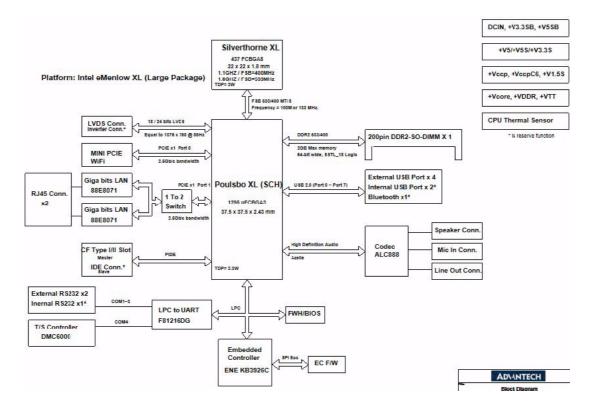
1.1 Overview

The UTC-W101E is an Intel® AtomTM based, fanless all-in-one PC. It has a 10.1", wide format, resistive touch-based LCD panel. Not only is it cost effective, but it's also a versatile solution designed to meet the vast demand emerging from the market. Hot keys on the bezel provide Instant access to functions; its simple and elegant industrial design blends perfectly into eServices scenarios.



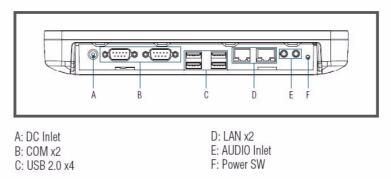
1.2 System Configuration

The following diagram is a block drawing of the UTC-W101E, based on a hospital bedside environment:



Button I/O arrangement:

Fully-Integrated I/O



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Hardware Description

This Chapter describes the hardware features of the UTC-W101E.

2.1 General Specifications

2.1.1 Standard PC Functions

- **CPU:** Intel® AtomTM Z510P 1.1 GHz / Z530P 1.6 GHz
- BIOS: Award 1024K x 8 (8 Mbit) Flash BIOS
- Chipset: Intel US15WP
- Front side bus: Supports 400/533MHz
- Memory: DDR2 SODIMM 400/533 MHz up to 2GB
- Audio: HD audio codec ALC888 + 2 x 1W speakers
- LAN: Marvell Yukon 88E8071 PCI-E Gigabit Ethernet controllers x 2
- Universal serial bus (USB) port: 4 ports for external I/O
- Mini PCI-E bus expansion slot: Accepts one mini PCI-E bus card
- Storage housing: Space for one CompactFlash
- Audio: Mic-in, Line-out
- **LAN:** Gigabit LAN x 2
- SPK+MIC: Built-in 2 x 1W SPK + EM147 MIC

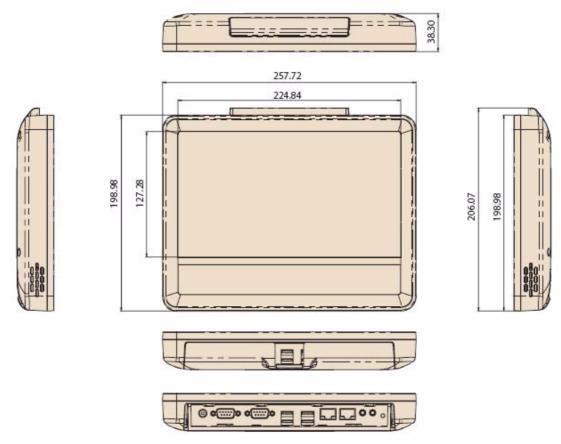
2.1.2 Power Environmental

- Power adaptor: AC/DC
 - Input voltage: 100 Vac ~ 240 Vac
 - Output voltage: 19 V @ 2.1 A
- Medical adaptor: AC/DC
 - Input voltage: 100 Vac ~ 240 Vac
 - Output voltage: 16-21 50 W max (SET UP 19 V @ 2.63 A)

2.2 Mechanical Specifications

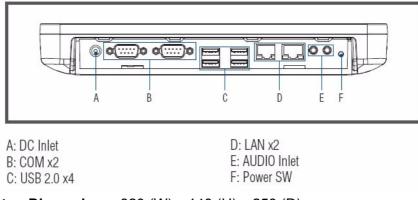
2.2.1 Mechanical Specifications (Terminal)

System Dimensions: 258(W) x 199(H) x 38.3(D) mm



- Carton Dimensions: 320 (W) x 140 (H) x 250 (D) mm
- Gross Weight: 2.0 kg
- Net Weight: 1.8 kg

2.2.2 Mechanical Drawing for Button I/O



- Carton Dimensions: 320 (W) x 140 (H) x 250 (D) mm
- Gross Weight: 2.0 kg
- Net Weight: 1.8 kg

2.3 Appearance

Front View (Terminal)



Side View



Rear View (Terminal)





Design Requirements

This Chapter describes the design requirements of the UTC-W101E.

3.1 Environmental Specifications

Temperature & Humidity

- **Operating Temperature:** 0 ~ 40° C
- Storage Temperature: -40 ~ 60° C
- **Relative Humidity:** 40 ~ 95% RH (Non-condensed)

Safety

CE

EMI

FCC class B approved

Vibration:

- 10 ~ 18 Hz, 1.5 mm peak-to-peak displacement
- 18 ~ 500 Hz, 1 G acceleration

3.2 Reliability

MTBF

20,000 hours

Touchscreen

1 million touch actuation times on a single point with a 5/8" diameter silicon finger under a 350 g load at 2 Hz

Power Requirements

- **DC Input Voltage:** 12-19 Vdc
- Power Consumption: less than 40 W





www.advantech.com

Please verify specifications before quoting. This guide is intended for reference purposes only.

All product specifications are subject to change without notice.

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