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ADVANTECH
UNO-247 V2 Edge
Intelligent Gateway
for Automation

ADVANTECH UNO-247 V2 Edge Intelligent Gateway for Automation Instruction Manual

Contents

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Packing List

Before you begin installing your card, please make sure that the following items have been shipped:

1. UNO-247 V2 bare-bone system x 1
2. Startup manual EN\CN\TC for UNO-247 V2 1st Ed P/N: 2041024700
3. Remote Power Connector P/N: 1652007993-01

If any of these items are missing or damaged, please con-tact your distributor or sales representative immediately.

- **Note:** Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: get. adobe.com/reader (Acrobat is a trademark of Adobe)
- **Caution**: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER, DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- **Attention**: DANGER D'EXPLOSION SI LA BATTERIE EST INEXACTEMENT REMPLACÉE. REMPLACEZ SEULEMENT AVEC LA MÊME CHOSE OU LE TYPE ÉQUIVALENT RECOMMANDÉ PAR LE FABRICANT, JETTENT LES BATTERIES UTILISÉES INSTRUCTIONS DE S SELON FABRICANT DES'.

Specifications

Processor System

- • Intel® N97 4 Core 6M Cache, up to 3.60 GHz 12W

Memory

- • Supports dual channel DDR5 SODIMM-4800 MHz; Max. capacity is 16 GB

Graphics

- • Intel® UHD Graphics

Serial Ports

- • 2 x RS-232/422/485 (50 to 115.2Kbps)
- • 4 x RS-485 DB9, (50bps ~ 115.2kbps)

Ethernet

- • LAN A: 4 x RJ45, 10/100/1000 Mbps IEEE 802.3u

Storage

- • 1 x mSATA (full size)
- • Or 1 x drive bay for SATA 2.5" HDD

Expansion

- • 1 x Full-size mPCIe slot (SATA/ USB2.0 Signal)
- • 1 x M.2 (3042/3052, B Key, PCIe/SATA/USB3.0)
- • 1 x Nano SIM card slot

External I/O

- • Display: 1 x VGA, 1 x HDMI
- • USB: 2 x USB 3.2, 2 x USB 2.0
- • Serial: 2 x RS232/422/485, 4 x RS485
- • Power Connector: 1 x Terminal Block, 1 x Remote Switch

Power Requirement

- Power type: ATX
- Power Input Voltage: 12-24VDC
- Power Connector: 1 x Terminal block
- Power Input: 12-24VDC 5A-2.5A

This product is intended to be supplied by a UL certified power supply or UL certified DC source rated 12VDC 5A minimum, TMA 50°C minimum (Safety certificate operation temperature 40°C), if you need further assistance, please contact Advantech for further information

Environment

- Operation Temperature: 0 ~ 50°C with 0.7m/s air flow -20 ~ 60°C with 0.7m/s air flow
  Note: With extended temperature peripherals, please choose RAM/SSD with wide temperature support.
- Storage Temperature: -40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity: 95% @ 60°C (non-condensing)

Physical Characteristics

- Dimensions (W x H x D): 200 x 140 x 60 mm
- Weight: 1.2kg (2.6lbs

Jumpers and Connectors

The board has a number of jumpers that allow you to configure your system to suit your application. The table below lists the function of each of the jumpers and connectors

Connectors	
Label	**Function**
VGA	VGA Connector
HDMI1	HDMI connector
COM 1/2	RS-232/422/485
COM 3/4/5/6	RS-485
USB 1-4	USB3.2 x 2 (Upper) USB2.0 x 2 (Down)
RJ45 LAN	4 x RJ45, 10/100/1000 Mbps
Power	1 x Terminal Block, 1 x Remote Switch
iDoor	Reserved iDoor hole

Battery

The computer is supplied with a battery-powered realtime 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 bat-teries according to manufacturer's instructions.

Declaration of Conformity

This device complies with the requirements in Part 15 of the FCC rules. Operation is subject to the following two conditions:
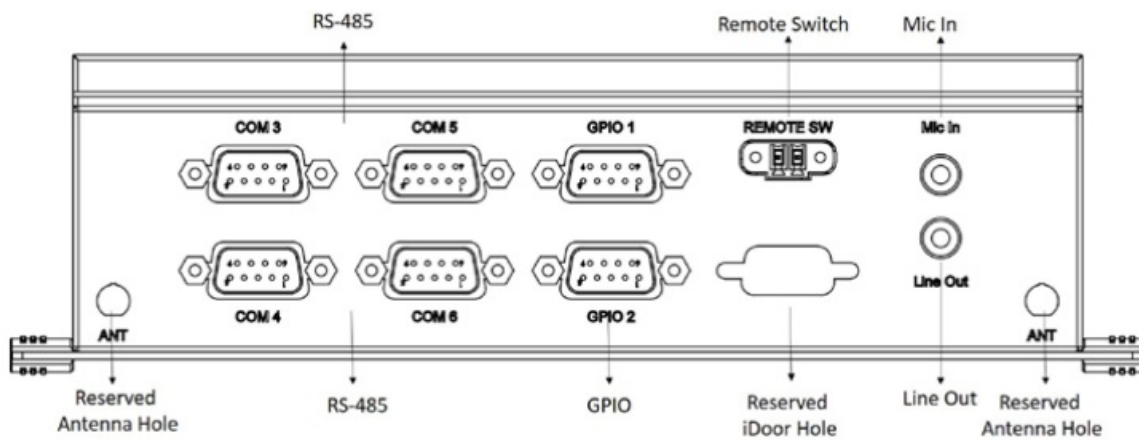
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired opera-tion.
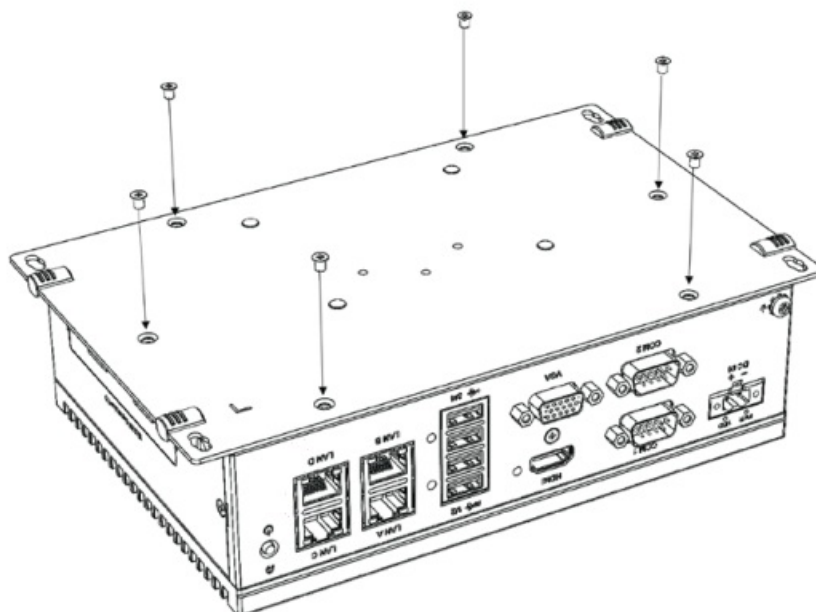
System I/O Interface

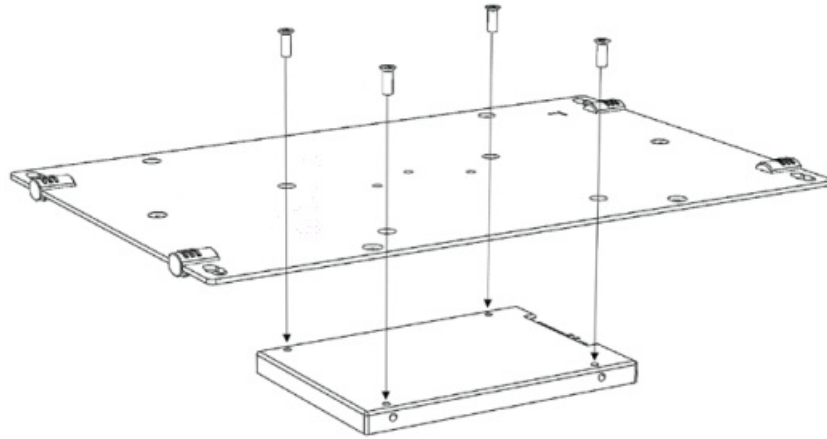**Front I/O View**
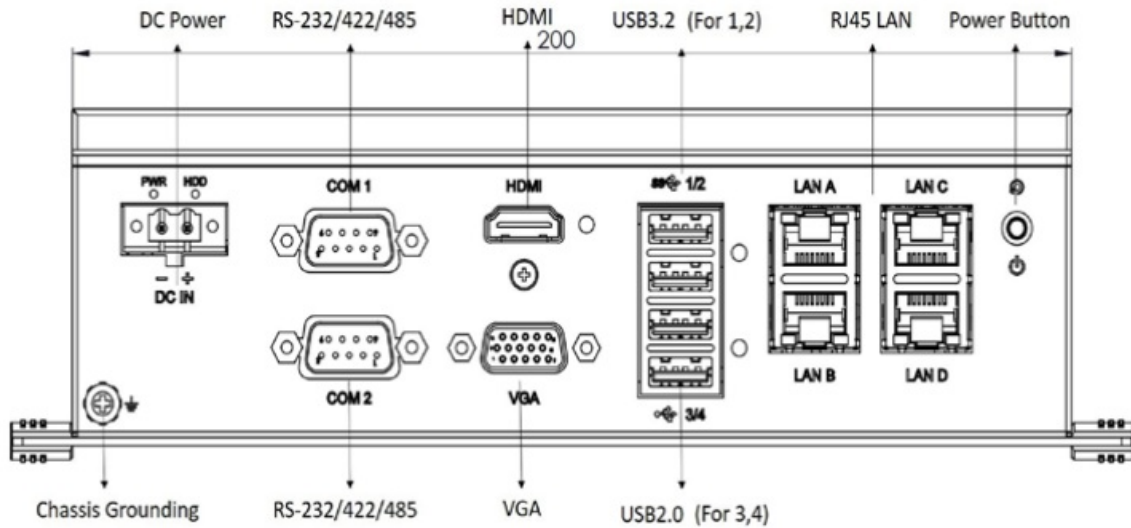
Rear I/O View

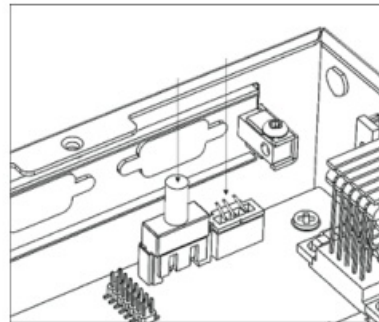## Simple Maintenance Process
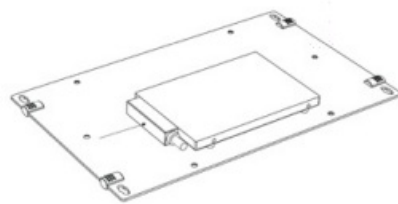
HDD/SSD Installation

1. Remove the six screws to disassemble the bottom cove

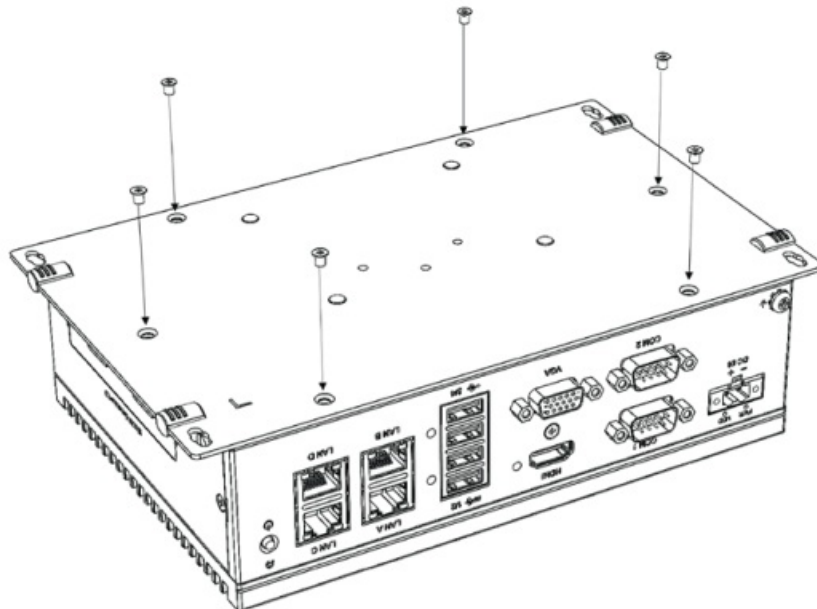2. Install and screw the hard drive to the bottom plate
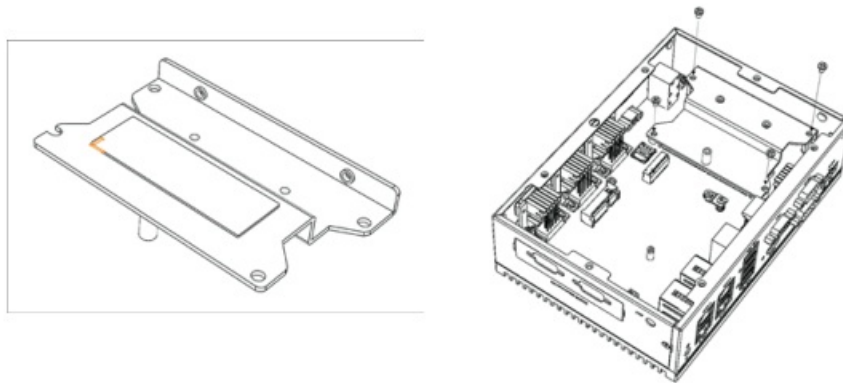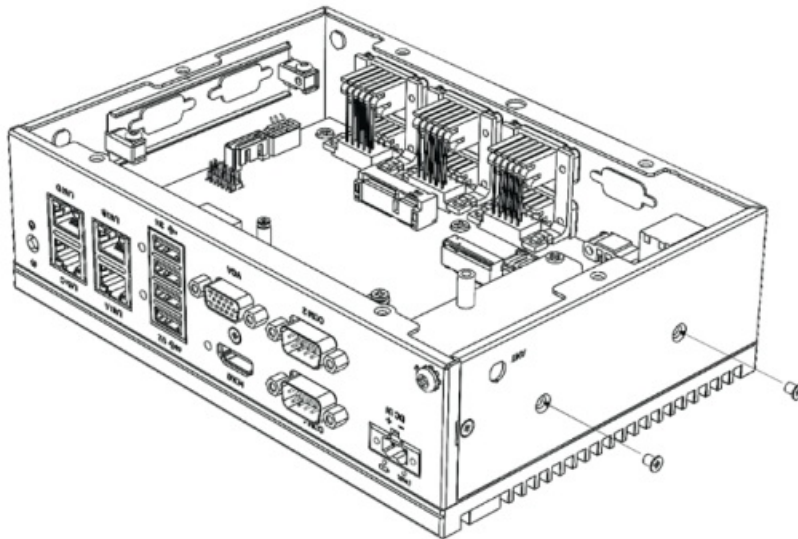
3. Insert SATA cable.

Memory Installation

1. Remove the six screws to disassemble the bottom cover.

2. Plug in memory first, then attach the thermal pad and screw on the bracket.
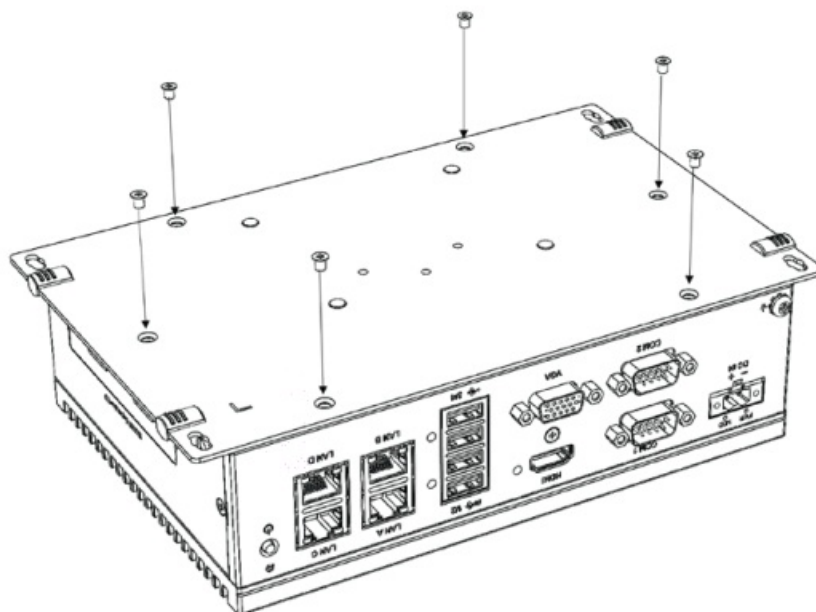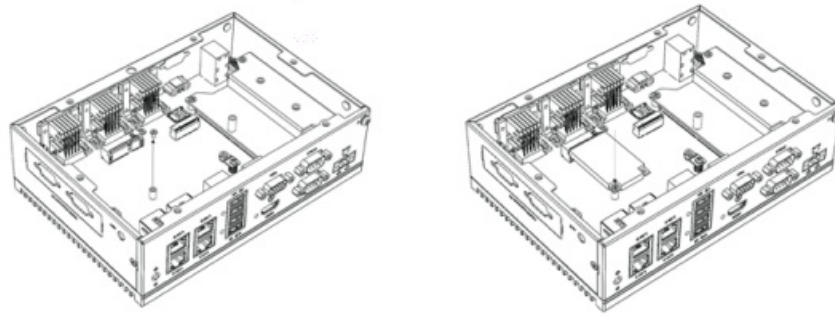
3. Tighten the external bracket screws.

mPCIE Installation

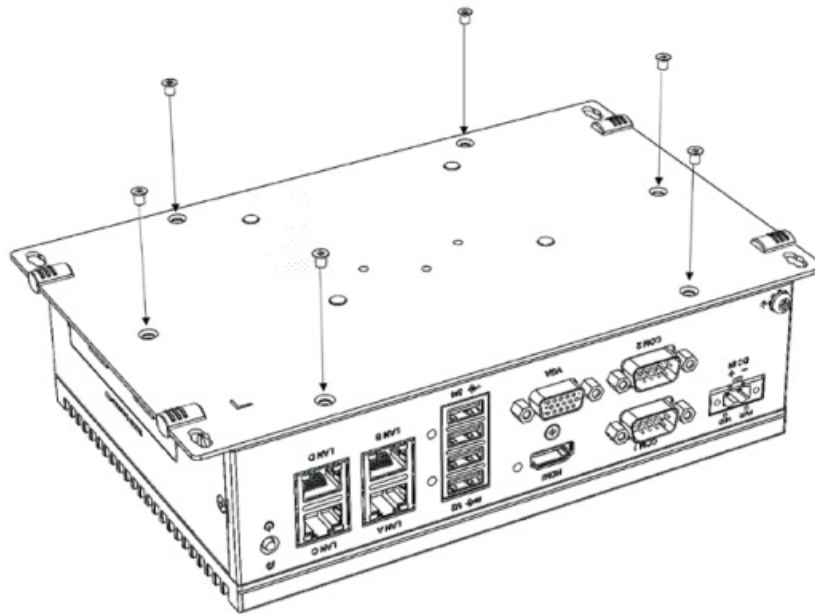1. Remove the six screws to disassemble the bottom cover

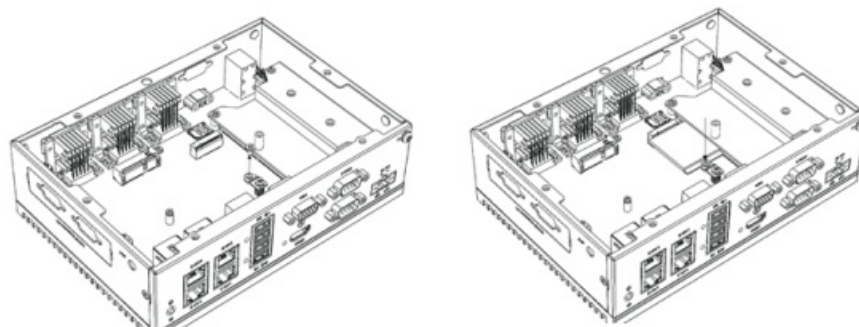2. Remove the screws pre-assembled on the board, install mPCIE and then tighten the screws

M.2 Installation

1. Remove the six screws to disassemble the bottom cover.
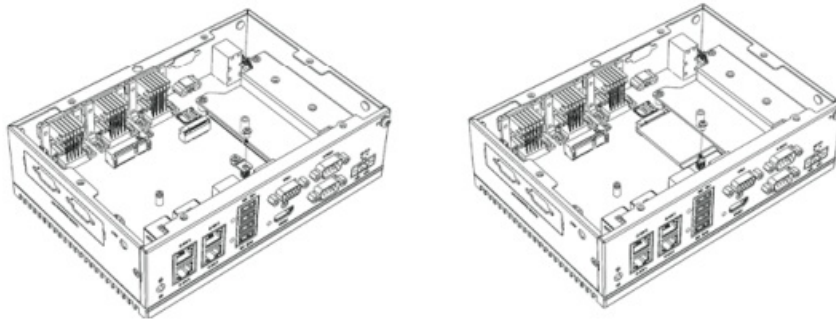

2. Remove the screws pre-assembled on the adapter plate, install M.2, and then tighten the screws
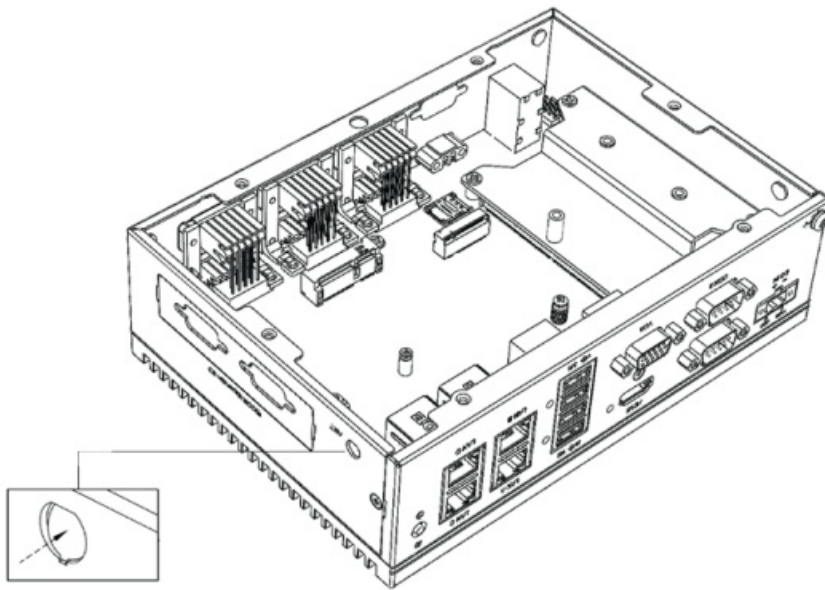

M.2 (3052) Installation

1. Remove the screws from the adapter plate, install the M.2(3052) and then lock the screws back.
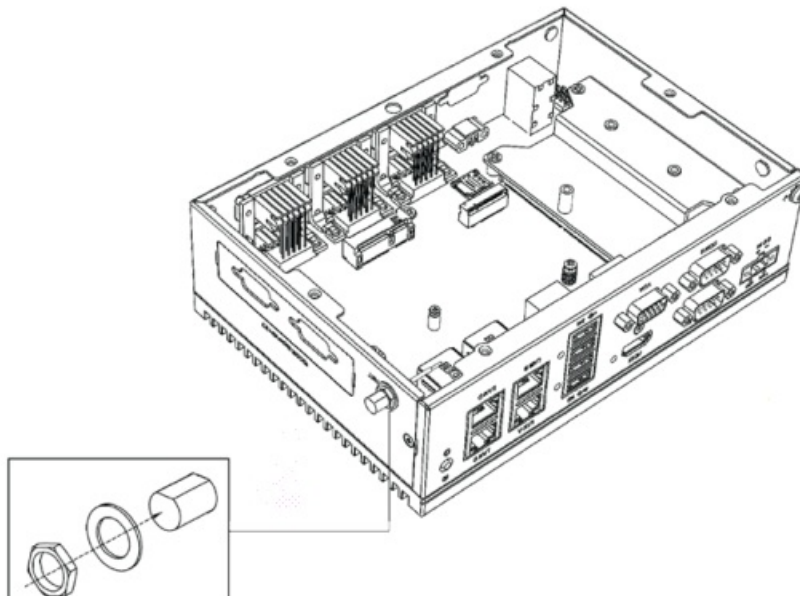
SMA Cable Installation

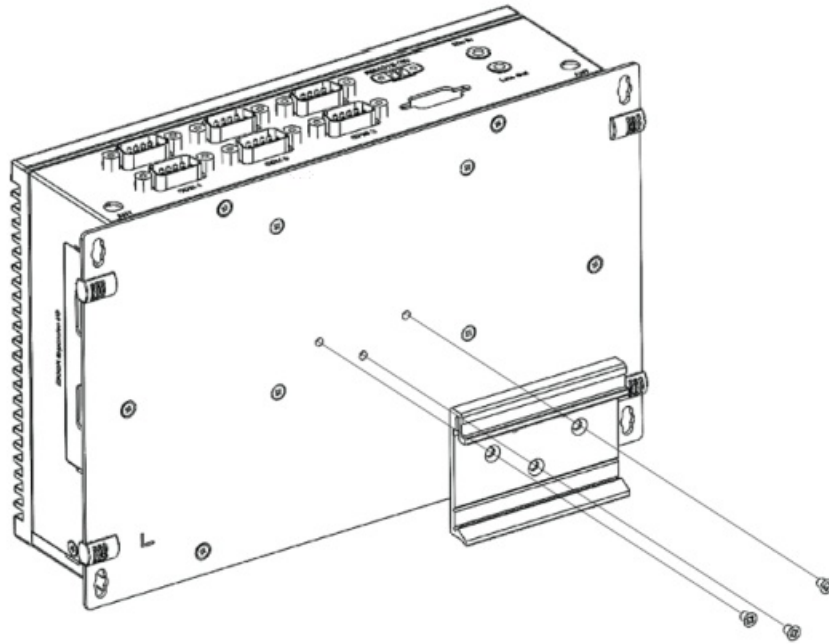1. Press (fold) the pre-cut hole of ANT inside (outside) to remove it.

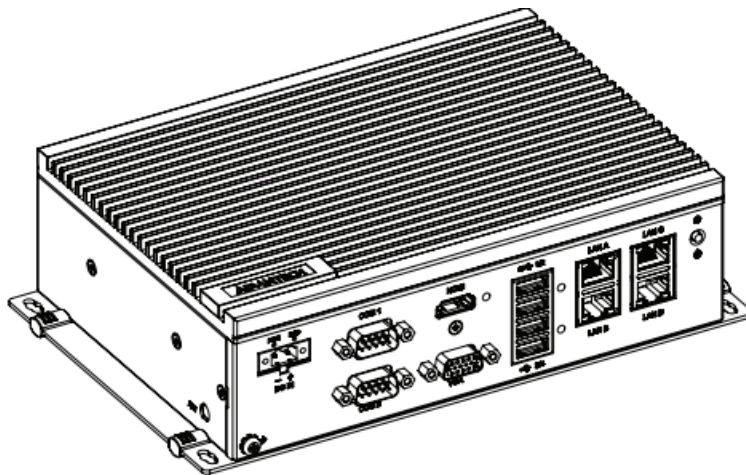2. Assemble the SMA Conn. in the pre-cut hole, and finally tighten the gasket and nut.

DIN-Rail Mount Installation

1. Take the mounting kit from the accessory box.

2. Secure with 3 x screws and install the bracket on the bottom cover

**Wall Mount and Stand Mount**

Safety Instructions

1. Read these safety instructions carefully.
2. Keep this Startup 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 installa-tion. 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:

    1. The power cord or plug is damaged.
    2. Liquid has penetrated into the equipment.
    3. The equipment has been exposed to moisture.
    4. The equipment does not work well, or you cannot get it to work according to the user's manual.
    5. The equipment has been dropped and damaged.
    6. The equipment has obvious signs of breakage.

15. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY GO BELOW -40°C (-40°F) OR ABOVE 85°C (185°F). THIS COULD DAMAGE THE EQUIPMENT. THE EQUIPMENT SHOULD BE IN A CONTROLLED ENVIRONMENT.

16. CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER, DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

17. The sound pressure level at the operator's position ac-cording to IEC 704-1:1982 is no more than 70 dB (A).

18. RESTRICTED ACCESS AREA: The equipment should only be installed in a Restricted Access Area.

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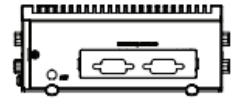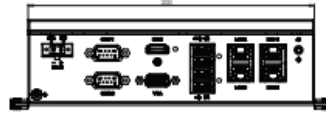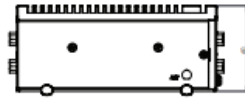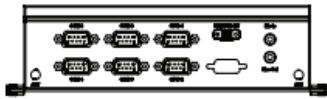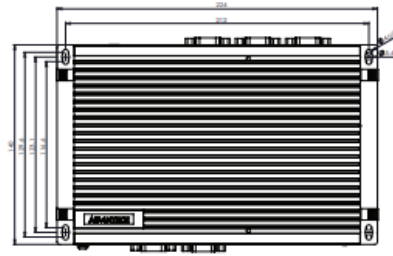
Connectors

Top View
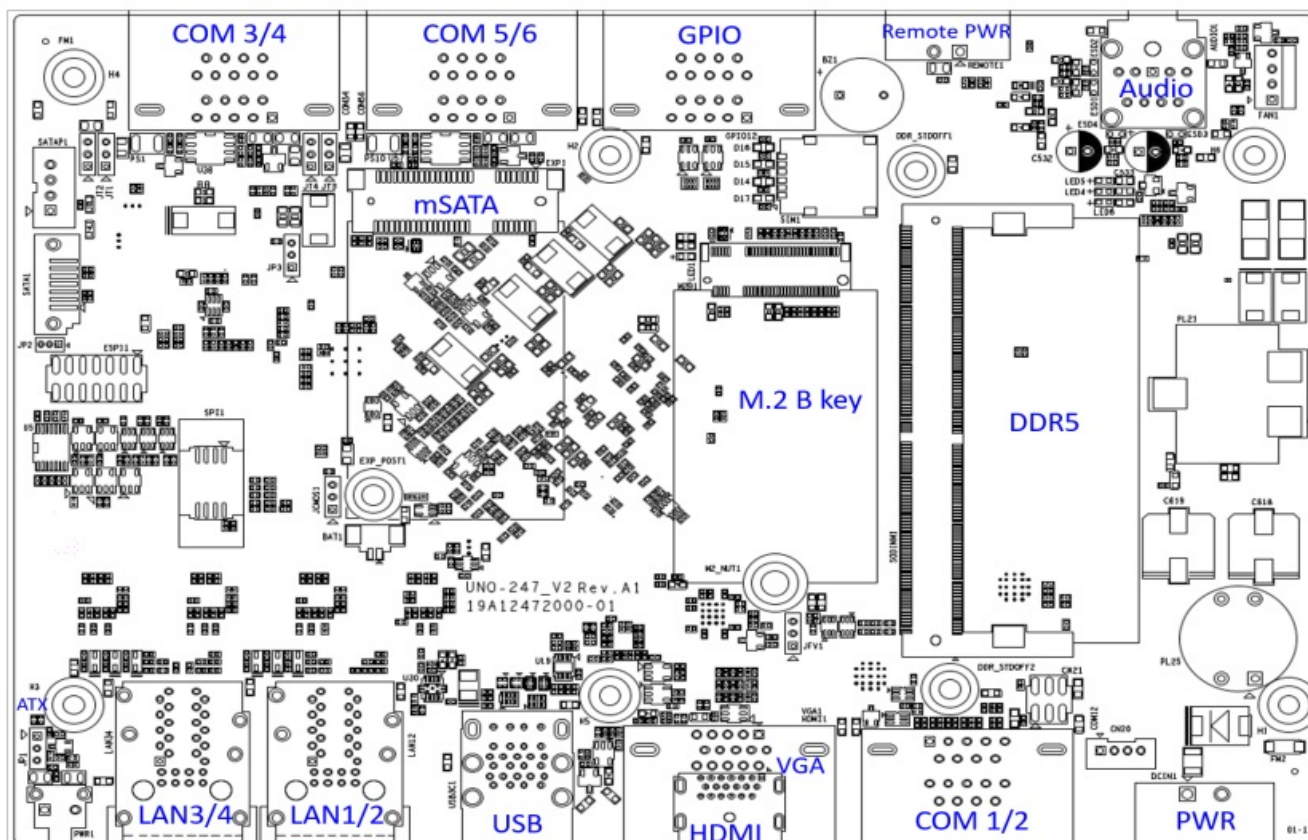
Bottom View
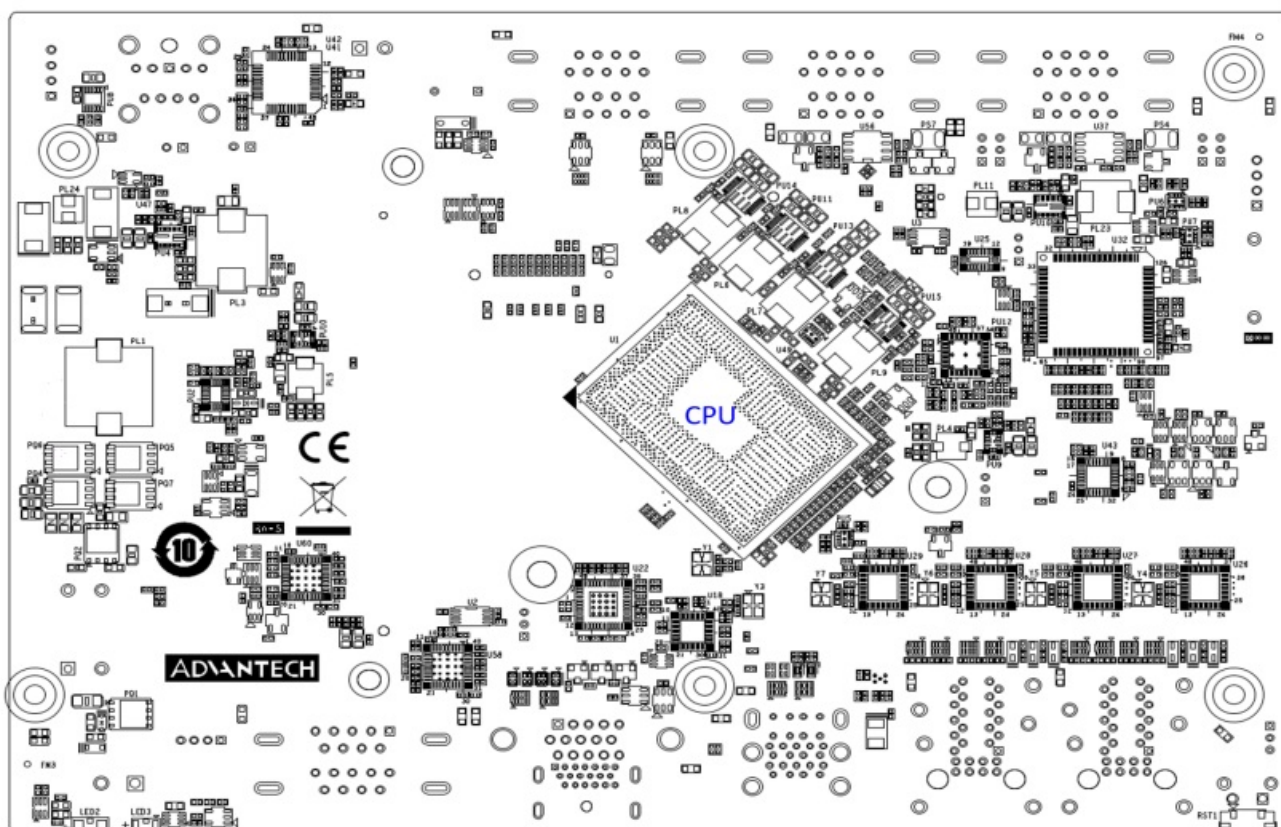
System Dimensions

CONTACT

For more information on this and other Advantech products, please visit our website at:
http://www.advantech.com

For technical support and service, please visit our support website for UNO-247 V2 at:

Register your products on our website and get 2 months extra warranty for Free
at:**http://www.register.advantech.com**

Part No. 2041024700 Printed in China

Documents / Resources

ADVANTECH UNO-247 V2 Edge Intelligent Gateway for Automation [pdf] Instruction Manual
UNO-247 V2 Edge Intelligent Gateway for Automation, UNO-247, V2 Edge Intelligent Gateway for Automation, Intelligent Gateway for Automation, Gateway for Automation

References

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- **User Manual**