

UNO-2484G V2 Intel® Core™ 11th i7/i5/i3/ Celeron® Processor Modular Box PC Startup Manual

Packing List

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

1. UNO-2484G V2
2. 1 x plug-in block for power wiring
3. Simplified Chinese manual
4. Quick Start Guide
5. Warranty card
6. Thermal pad M.2 M key module: 1990038768N010
7. Thermal pad M.2 B key module: 1990038769N010

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

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-2484G V2 at:



Part No. 2041248400

1st Edition
August 2023

Declaration of Conformity

CE

This product has passed the CE test for environmental specifications when shielded cables are used for external wiring. We recommend the use of shielded cables. This type of cable is available from Advantech. Please contact your local supplier for ordering information.

Test conditions for passing also include the equipment being operated within an industrial enclosure. In order to protect the product from damage caused by electrostatic discharge (ESD) and EMI leakage, we strongly recommend the use of CEcompliant industrial enclosure products.

FCC Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference. In this event, users are required to correct the interference at their own expense.

Specifications

Processor System

- Intel® Core™ 11th i7/i5/i3 Processor

Memory

- Built-in 8GB DDR4 3200 MHz, supports up to 64GB (2 slots)

Graphics

- Intel® Iris® Xe Graphics

Ethernet

- **LAN A:** Intel i219-LM 1Gb/s, IEEE 802.3, 802.1as/1588
- **LAN B-D:** Intel® i226-LM 2.5Gb/s, IEEE 802.3, 802.1as/1588

Expansion/Storage

- 1 x M.2 B key slot (USB Signal for 3042/3052 LTE/5G/LTE module, SATA signal for storage)
- 1 x 2.5" SSD SATA drive bay (support SSD/HDD heightup to 9.5mm)
***Support RAID0/RAID1 with 2.5" SSD and M.2 B key 2242 SSD.
- 1 x M.2 M key (PCIex4) supports 2280 NVME SSD
- 2 x mPCIe slot (PCIe, USB2.0 signal)

Specifications (Cont.)

Front I/O

- **Display:**
 - 1 x HDMI 1.4 (3840x2160@60Hz)
 - 1 x DP 1.4a (4096x2304@60Hz)
- **USB:** 3 x USB 3.2 Gen2, 1 x USB2.0
- **Serial:** 4 x RS-232/422/485
- **USB Type-C:** 1 x USB3.2 Gen2, support DP1.4a Alt. mode
- **Power Connector:** 1 x 2 pins, terminal block

Power Requirement

- **Power Requirement:** 10 ~ 36 V_{DC}
- **Power Consumption:** 30.2W (Typical), 85W (Max)

Certification

- CE, FCC, UL, CCC, BSMI

Environment

- **Operating Temperature:** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow
- **Storage Temperature:** -40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity:** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection:** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Protection:** Operating, IEC 60068-2-64, 3 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
- **Ingress Protection:** IP40 (for Base unit only)

Physical Characteristics

- **Dimensions:**
 - 200 x 140 x 40 (7.8" x 5.6" x 1.6") for single stack
 - 200 x 140 x 70 (7.8" x 5.6" x 2.8") for single stack w/expansion stack UNO-2484G V2 version
- **Weight:** (Net) Single stack: 1.4kg (3.09lbs)

Introduction

The UNO-2484G V2 is an embedded hardware-ready platform capable of shortening development time. The system offers a wide range of networking interfaces to satisfy the various needs of different applications. Equipped with the 11th Intel® Core™ i processor, and 8GB DDR4 RAM. It supports wide temperature range operation (-20 ~ 60° C/-4 ~ 140° F) and sufficient I/O - including 1 x GbE, 3 x 2.5 GbE, 2 x mPCIe, 1 x M.2 B-key, 1 x M.2 M-key, 1 x HDMI, 1 x DP, 1 x USB2.0, 3 x USB 3.2, 1 x USB TypeC, and 4 x COM. It also supports 2 x Mini PCIe slot (PCIe/USB2.0 signal) to enable expansion. An optional 2nd stack extension kit supports 2 x iDoor module, such as industrial Fieldbus, as well as I/O and peripheral modules.

UNO-2484G V2 features a modularized design. Advantech offers two optional 2nd stack extension kits for users to expand the functionality using an Advantech iDoor module.

Safety Precautions - Static Electricity

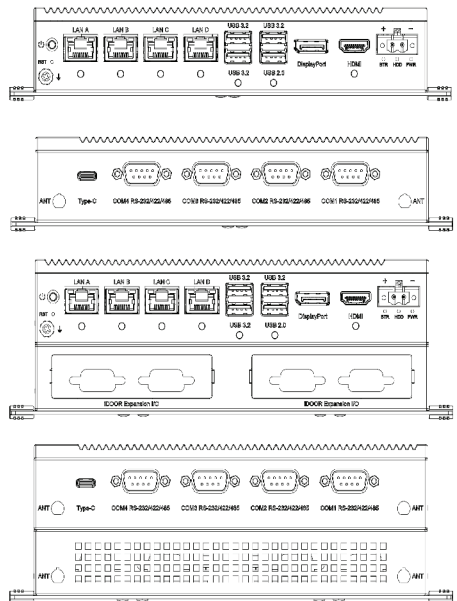
Follow these simple precautions to protect yourself from harm and the products from damage.

- To avoid electrical shock, always disconnect the power from the PC chassis before manual handling. Do not touch any components on the CPU card or other cards while the PC is powered on.
- Disconnect the power before making any configuration changes. A sudden rush of power after connecting a jumper or installing a card may damage sensitive electronic components.

Technical Support and Assistance

1. Visit the Advantech website at www.advantech.com/ support to obtain the latest product information.
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 calling:
 - 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

System I/O Interface

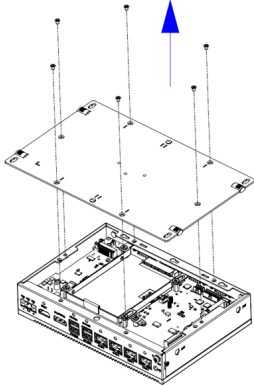


Simple Maintenance Process

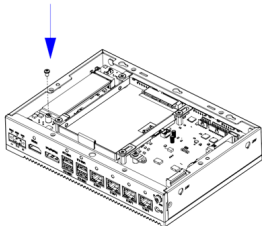
Installing NVME 2280 module

The rear cover can be opened in order to install a mPCIe/ NVME/ M.2 module, SSD, or HDD, or to adjust the switch settings.

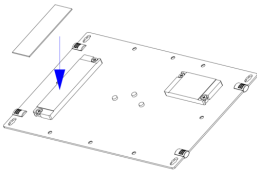
1. Remove the six screws (PN:1930001361*6pcs) on the rear cover.



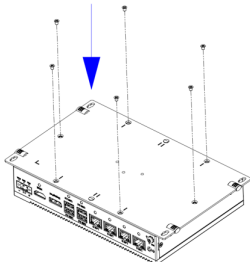
2. Insert NVME card at the location: "NVME1" and secure it with the provided screw (PN: 19350304A0*1pcs).



3. Paste the thermal pad (PN: 1990038768N010*1pcs) on the Aluminum block from the accessory bag.



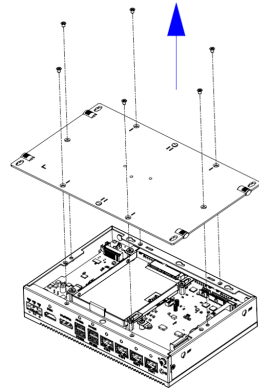
4. Close the rear cover and re-attach the six screws (PN:1930001361*6pcs) back.



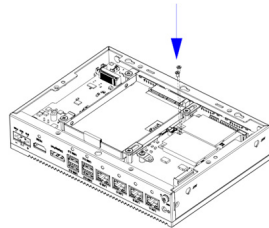
Simple Maintenance Process (Cont.)

Installing miniPCIe Module

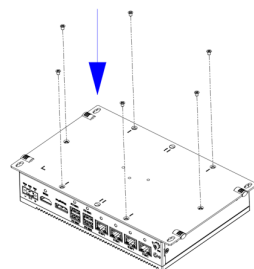
1. Remove the six screws (PN:1930001361*6pcs) on the rear cover.



2. Insert miniPCIe card at the location: "mPCIe1" or "mPCIe2" and secure it with the provided screw (PN: 1930000198*1pcs).



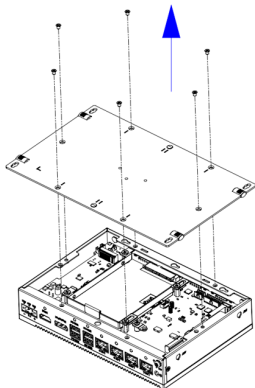
3. Close the rear cover and re-attach the six screws back (PN:1930001361*6pcs)..



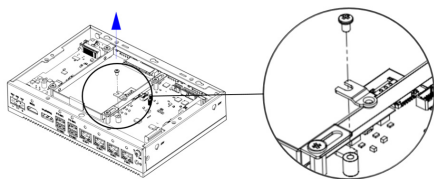
Simple Maintenance Process (Cont.)

Installing M.2 B Key 3052 Module

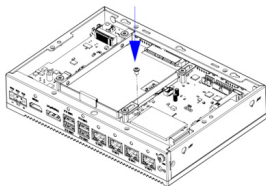
1. Remove the six screws (PN:1930001361*6pcs) on the rear cover.



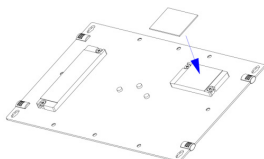
2. Remove the pre-assy iron part (PN:1960102502T000*1pcs) and the screw. (PN:19350304A0*1pcs)



3. Insert the M.2 B key 3052 module and secure it with the provided screw (PN:19350304A0*1pcs).

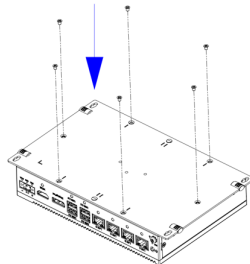


4. Paste the thermal pad (PN: 1990038769N010*1pcs), on the Aluminum block from the accessory bag.



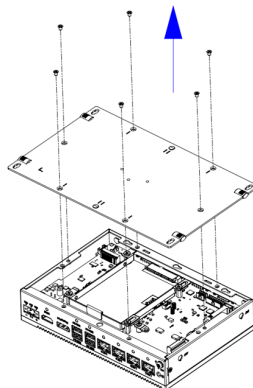
Simple Maintenance Process (Cont.)

5. Close the rear cover and re-attach the six screws back (PN:1930001361*6pcs).

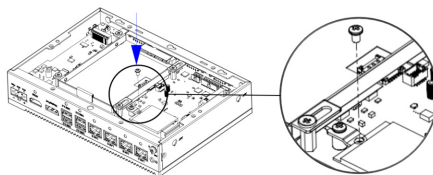


Installing M.2 B key 2242 Module

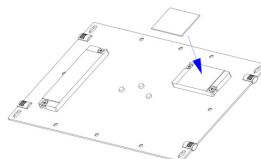
1. Remove the six screws (PN:1930001361*6pcs) on the rear cover.



2. Insert the M.2 2242 module and secure it with the provided screws (PN: 19350304A0*1pcs).

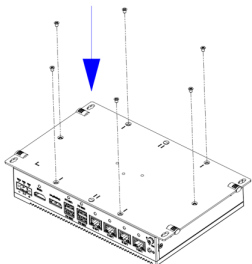


3. Paste the thermal pad (PN: 1990038769N010*1pcs), on the Aluminum block from the accessory bag.



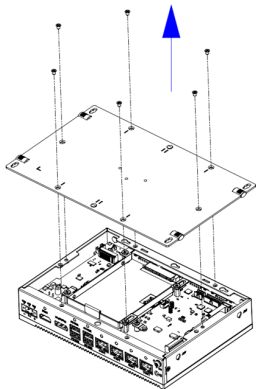
Simple Maintenance Process (Cont.)

4. Close the rear cover and re-attach the six screws back (PN:1930001361*6pcs).

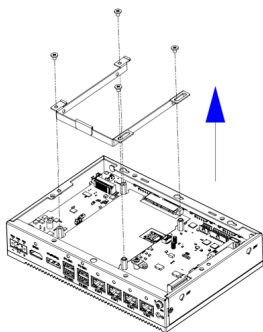


Installing 2.5" SSD Module

1. Remove the six screws (PN:1930001361*6pcs) on the rear cover.

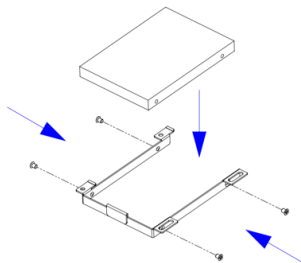


2. Remove SSD bracket (PN:1960084377N000*1pcs) and screws (PN:1930008481*4pcs).

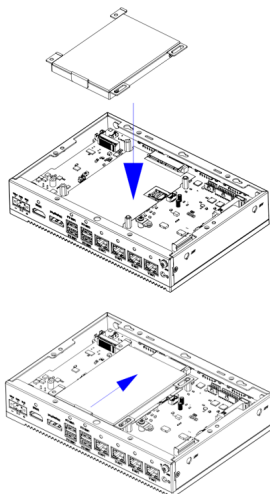


Simple Maintenance Process (Cont.)

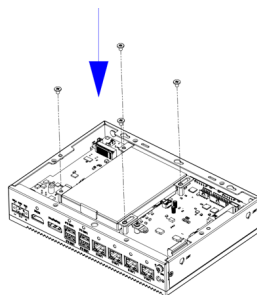
3. Assemble the SSD on the bracket with screws (PN:1930001361*4pcs).



4. Assemble the SSD with bracket on the system slide rail.

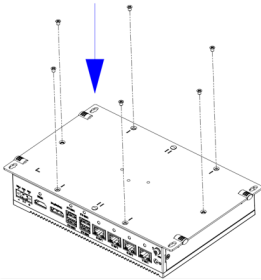


5. Re-attach the SSD bracket with screws (PN:1930008481*4pcs).



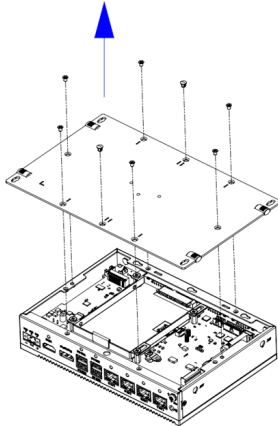
Simple Maintenance Process (Cont.)

6. Close the rear cover and re-attach the six screws back (PN:1930001361*6pcs).

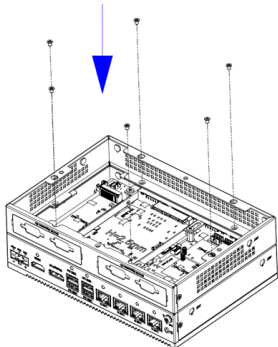


Installing Expansion Kit

1. Remove the six screws (PN:1930001361*6pcs) and the rubbers (PN:1990038767S000*2pcs) on the rear cover.

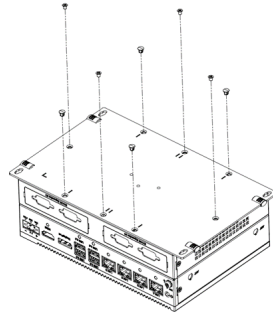


2. Assemble the second stack with screws (PN:1930001361*6pcs).



Simple Maintenance Process (Cont.)

3. Close the rear cover and re-attach the six screws (PN:1930001361*6pcs) and the rubbers (PN:1990038767S000*4pcs).



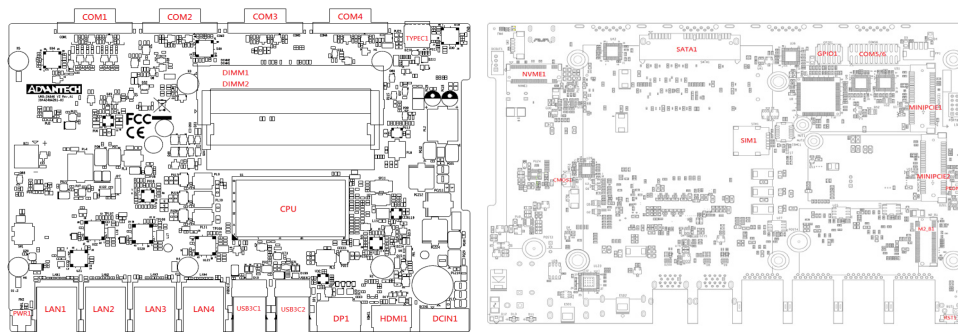
Safety Instructions

1. Read these safety instructions carefully.
2. Retain this user manual for future reference.
3. Disconnect the equipment from all power outlets before cleaning. Use only a damp cloth for cleaning. Do not use liquid or spray detergents.
4. For pluggable equipment, the power outlet socket must be located near the equipment and easily accessible.
5. Protect the equipment from humidity.
6. Place the equipment on a reliable surface during installation. Dropping or letting the equipment 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. Ensure that the voltage of the power source is correct before connecting the equipment to a power outlet.
9. Position the power cord away from high-traffic areas. 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 from transient overvoltage.
12. Never pour 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 any of the following occurs, have the equipment checked by service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated the equipment.
 - The equipment has been exposed to moisture.
 - The equipment is malfunctioning, or does not operate according to the user manual.
 - The equipment has been dropped and damaged.
 - The equipment shows obvious signs of breakage.

Safety Instructions (Cont.)

15. Do not leave the equipment in an environment with a storage temperature of below -40° C (-40° F) or above 85° C (185° F) as this may damage the components. The equipment should be kept in a controlled environment.
16. CAUTION: Batteries are at risk of exploding if incorrectly replaced. Replace only with the same or equivalent type as recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.
17. In accordance with IEC 704-1:1982 specifications, the sound pressure level at the operator's position does not exceed 70 dB (A).
18. Ensure that the voltage of the power source is correct before connecting the equipment to a power outlet. The power outlet socket should have a grounded connection.
19. For use in pollution free environments and indoor use.
20. This equipment is not suitable for use in locations where children are likely to be present.
21. If the equipment is used in a manner not specified by the Advantech, the protection provided by the equipment may be impaired.
22. The equipment contains no user-serviceable parts. Do not open, Return to manufacturer for servicing.
23. Do not block air ventilation holes.
24. This is open type equipment and should be installed in a suitable enclosure.
25. Restricted Access Area: The equipment should only be installed in a Restricted Access Area.
26. This product is intended to be supplied by an UL certified power supply or dc source with SELV output, rated 10 Vdc, 7.7A minimum and Tma 40 degree. If you need further assistance, please contact Advantech for further information.
27. This product is intended to be supplied by an UL Listed power supply suitable for use at Tma 60° C min. whose output meets ES1 (or SELV) is rated: (1) 10-36Vdc, 7.65A-2.12A min. (DC IN), if need further assistance, please contact Advantech for further information.
28. DISCLAIMER: These instructions are provided according to IEC 704-1 standards.
29. Advantech disclaims all responsibility for the accuracy of any statements contained

I/O Connectors

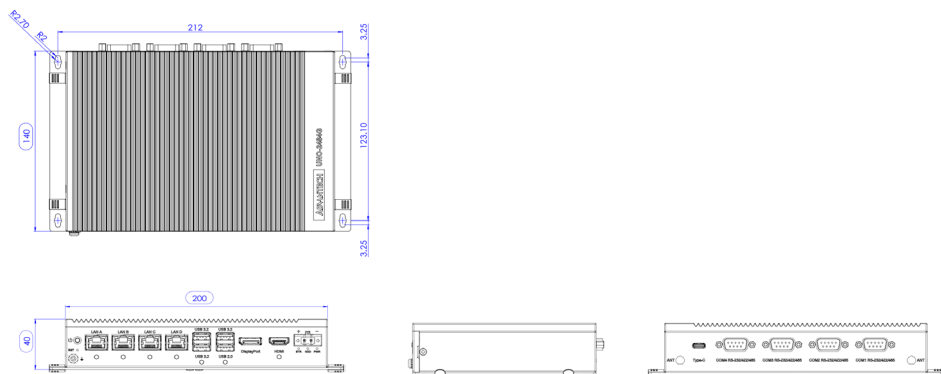


Attention Surface chaude, ne pas toucher pour le dissipateur thermique supérieur.

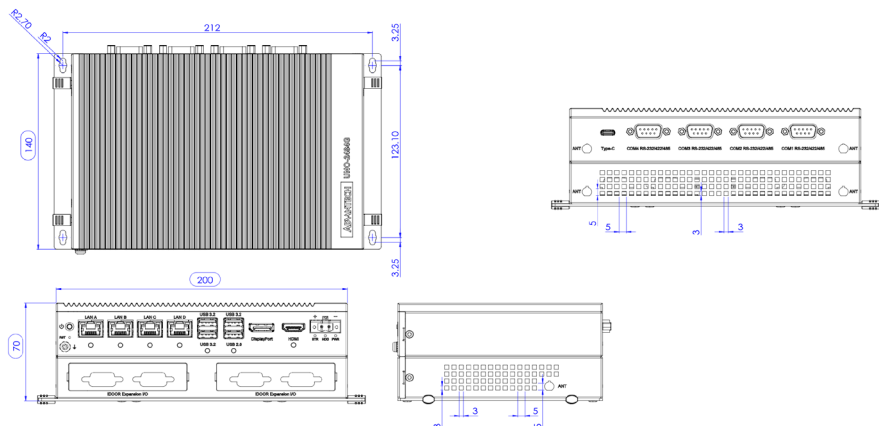


System Dimensions

UNO-2484G V2 Dimensions



UNO-2484G V2 Dimensions (with Optional Extension Kit)



UNO-2484G V2

搭载 Intel® 第十一代 Core™ 无风扇嵌入式工业计算机 快速入门手册

包装清单

安装系统之前，使用者需确认包装中含有下面所列各项：

1. UNO-2484G V2
2. 1 x 插入式模块，用于电源接线
3. 快速入门手册
4. 质保卡
5. 散热垫 M.2 M key 模块：1990038768N010
6. 散热垫 M.2 B key 模块：1990038769N010

如果其中任何一项缺失或损坏，请立即与经销商或销售代表联系。

注： 阅读 PDF 文件需要使用 Acrobat Reader。用户可从以下路径下载 Acrobat Reader：get.adobe.com/reader (Acrobat is a trademark of Adobe)

如需更多有关这款产品及其它研华产品的信息，请访问研华网站：

<http://www.advantech.tw>



如需技术支持和服务，请访问研华支持网站的 UNO-2484G V2 页面：



本手册适用于 UNO-2484G V2。

料号：2041248400

第一版
2023 年 8 月

产品规格

处理器系统

- Intel® 第十一代 Core™ i 处理器 Intel Celeron® 6305E 1.8GHz, or Core™ i3-1115G4E 2.2GHz/i5-1145G7E 1.5GHz/i7-1185G7E 1.8GHz

内存

- 8GB DDR4 3200MHz SO-DIMM (高达 64 GB)

显示

- Intel® Iris® Xe Graphics

以太网

- LAN A: Intel i219-LM 1Gb/s, IEEE 802.3, 802.1as/1588
- LAN B-D: Intel® i226-LM 2.5Gb/s, IEEE 802.3, 802.1as/1588

扩展/存储

- 1 x M.2 B key slot (USB Signal for 3042/3052 LTE/5G/LTE module, SATA signal for storage)
- 1 x 2.5" SSD SATA drive bay (支持 SSD/HDD 高度高达 9.5mm)
Support RAID0/RAID1 with 2.5" SSD and M.2 B key 2242 SSD.
- 1 x M.2 M key (PCIe4) 支持 2280 NVME SSD
- 2 x mPCIe 插槽 (PCIe, USB2.0 signal)

前部 I/O

- 显示：1 x HDMI 1.4 (3840x2160@30Hz)
1 x DP 1.4a (4096x2304@60Hz)
- 串型端口：4 x RS-232/422/485
- USB：3 x USB 3.2 Gen2, 1 x USB2.0
- USB Type-C：1 x USB3.2 Gen2, 支持 DP1.4a Alt. 模式
- 电源接口：1 x 2 pins, terminal block

电源要求

- 输入电压：10 - 36 V_{DC}
- 电源输入：30.2W (Typical), 85W (Max)

环境规格

- 工作温度：-20 ~ 60° C (-4 ~ 140° F) @5 ~ 85% RH, 气流速度 0.7 m/s
- 储存温度：-40 ~ 85° C (-40 ~ 185° F)
- 相对湿度：10 ~ 95% RH @ 40° C (非凝结)

物理规格

- 尺寸 ((W x D x H) 40 x 140 x 200 mm (1.57 x 5.51 x 7.87 in)
- 重量 (净重) 3 kg (6.61 lbs)

产品简介

UNO-2484G V2 是一款嵌入式硬件就绪型平台(Hardware Ready Platform)，可缩短开发时间，并提供一系列网络接口以满足不同应用的各种需求。UNO-2484G V2 搭载第 11 代 Intel® Core™ i 处理器，配备 8 GB DDR4 RAM，并提供丰富接口：1 x GbE、3 x 2.5 GbE、2 x mPCIe、1 x M.2 B-key、1 x M.2 M-key、1 x HDMI、1 x DP、1 x USB2.0、3 x USB 3.2、1 x USB TypeC 和 4 x COM。它还支持 2 个 Mini PCIe 插槽 (PCIe/USB2.0 信号) 以方便扩展。可选第二堆栈扩展工具支持 2 个 iDoor 模块，如工业现场总线、I/O 和外设模块。

UNO-2484G V2 提供 1 个 M.2 B key 和 1 个 M.2 M key 接口，以方便扩展。它可以与高速 Wi-Fi 6、5G 和 NVMe SSD 集成，以实现高效的数据传输。UNO-2484G V2 支持多种驱动程序和操作系统，包括 Windows 10 和 Linux，用户可在该平台上轻松集成应用，以便为各种需求提供多种功能。

认证

CE、FCC、UL、CCC、BSMI

安全措施

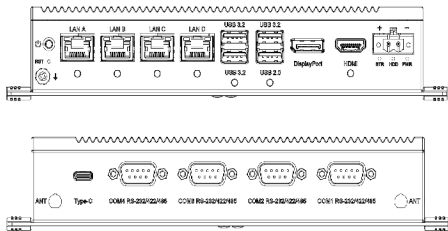
以下内容将指导用户如何连接各种硬件设备。大多数情况下，用户只需要准备一根标准电缆即可。

警告！ 无论何时进行硬件操作，请务必完全断开机箱电源。请勿在电源接通时

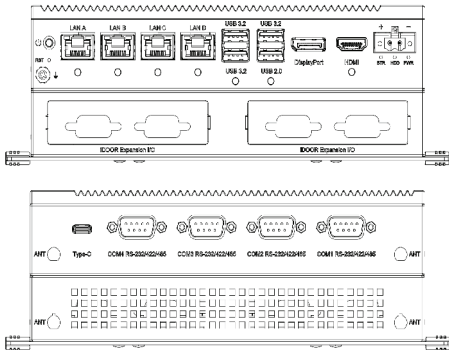
进行设备连接，以防止瞬间电流损坏敏感电源元件。只有专业技术人员才可以打开机箱。

注意！ 接触 UNO-2484G V2前，请先确保您接地来移除身上附带的静电。由于现在的电子设备对静电十分敏感，为了安全起见，请使用接地腕环。请将所有电子元件放在无静电的表面或静电屏蔽袋中。

系统 I/O 接口



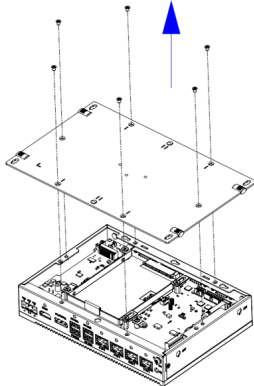
系统 I/O 接口 (续)



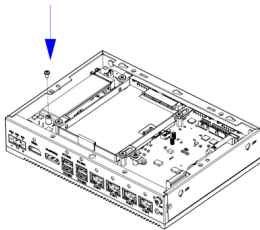
简单安装步骤

安装 NVMe 2280 模块

1. 卸下 M3 螺丝 (PN:1930001361x6)，并移除底盖。

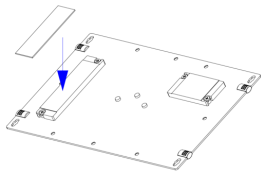


2. 装上 NVMe 模块,再用 M3 螺丝 (PN:19350304A0x1) 固定。

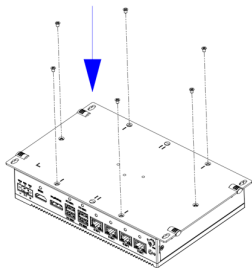


简单安装步骤（续）

3. 从附件盒拿出 thermal pad (PN:1990038768N010x1), 并贴附于铝块上。

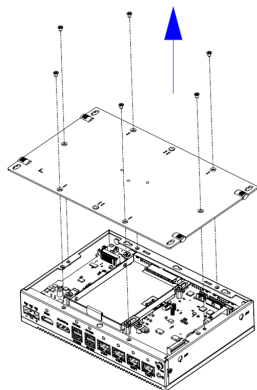


4. 盖上底盖并用 M3 螺丝固定 (PN:1930001361x6)。

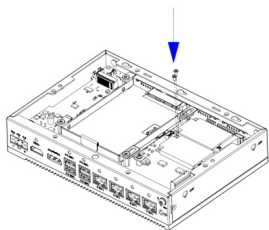


安装 miniPCIe 模块

1. 卸下 M3 螺丝 (PN:1930001361x6), 并移除底盖。

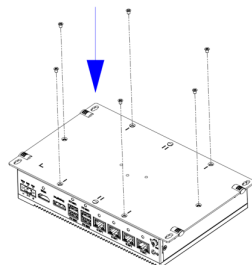


2. 装上 mPCIe 模块, 再用 M2 螺丝 (PN:1930000198x1) 固定。



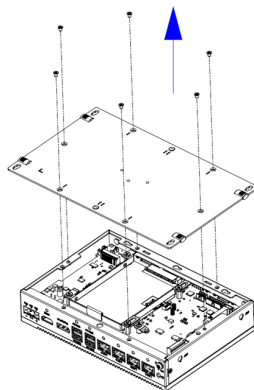
简单安装步骤（续）

3. 盖上底盖并用 M3 螺丝固定 (PN:1930001361x6)。

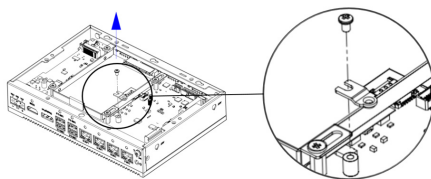


安装 M.2 B key 3052 模块

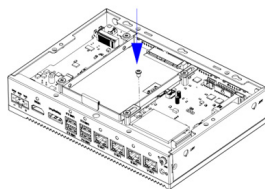
1. 卸下 M3 螺丝 (PN:1930001361x6), 并移除底盖。



2. 将板上预先锁好的铁件 (PN:1960102502T000) 与螺丝 (PN:19350304A0x1) 卸除。

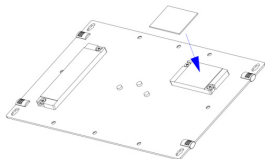


3. 装上 M.2 3052 模块, 再用 M3 螺丝 (PN:19350304A0x1) 固定。

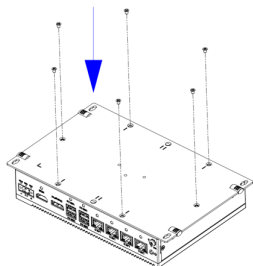


简单安装步骤（续）

- 建议从附件盒拿出 thermal pad (PN:1990038769N010x1), 并贴附于铝块上。

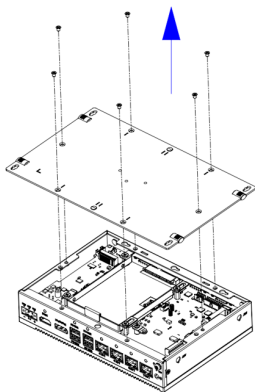


- 盖上底盖并用 M3 螺丝固定 (PN:1930001361x6)。

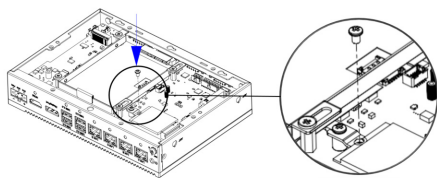


安装 M.2 B key 2242 模块

- 卸下 M3 螺丝 (PN:1930001361x6), 并移除底盖。

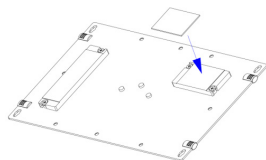


- 装上 M.2 2242 模块, 再用 M3 螺丝 (PN:19350304A0x1) 固定。

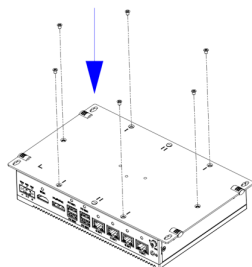


简单安装步骤（续）

- 从附件盒拿出 thermal pad (PN:1990038769N010x1), 并贴附于铝块上。

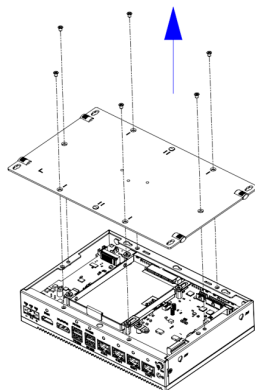


- 盖上底盖并用 M3 螺丝固定 (PN:1930001361x6)。

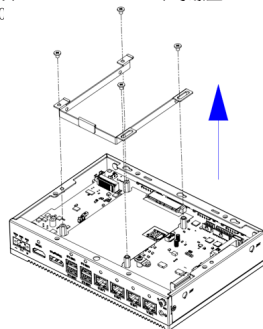


安装 2.5" SSD 模块

- 卸下 M3 螺丝 (PN:1930001361x6), 并移除底盖。

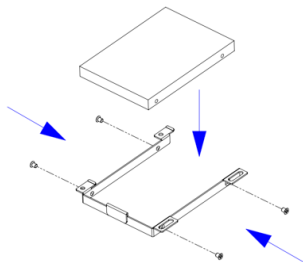


- 卸除支架 (PN:1960084377N000) 与螺丝 (PN:193C

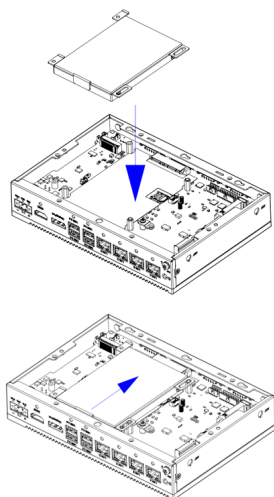


简单安装步骤（续）

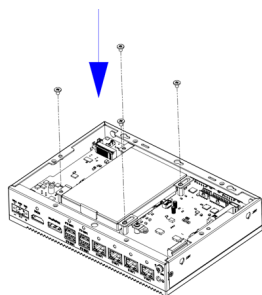
3. 将 SSD 装在支架上,使用 M3 螺丝(PN:1930001361x4)固定。



4. 将装上 SSD 的支架放入系统中,并滑入固定。

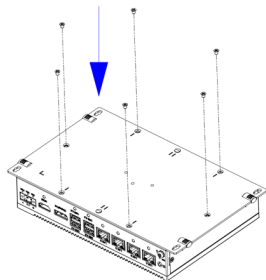


5. 锁回 M3 螺丝(PN:1930008481x4)。



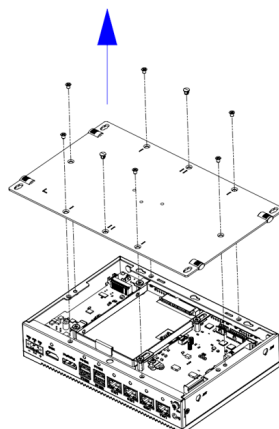
简单安装步骤（续）

6. 盖上底盖并用 M3 螺丝固定(PN:1930001361x6)。

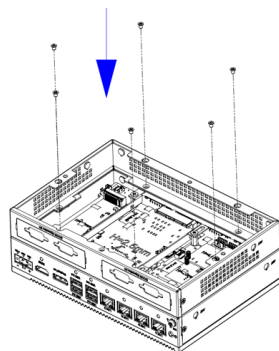


安装扩展套件

1. 卸下 M3 螺丝(PN:1930001361x6)与塞子(PN:1990038767S000x2),并移除底盖。

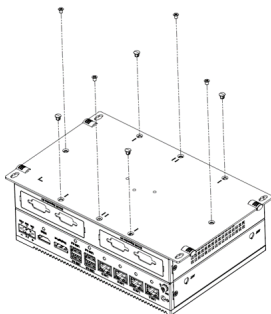


2. 安装扩展套件并用 M3 螺丝(PN:1930001361x6)。



简单安装步骤（续）

3. 盖上底盖并用 M3 螺丝固定(PN:1930001361x4)与塞子(PN:1990038767S000x4)。



I/O 接口



UNO-2484G V2

搭載 Intel® 第十一代 Core™ 無風扇嵌入式工業電腦 快速入門手冊

包裝清單

安裝系統之前，使用者需確認包裝中含有下面所列各項：

1. UNO-2484G V2
2. 1 x 插入式模組，用於電源接線
3. 快速入門手冊
4. 保固卡
5. 散熱墊 M.2 M key 模組：1990038768N010
6. 散熱墊 M.2 B key 模組：1990038769N010

如果其中任何一項缺失或損壞，請立即與經銷商或業務代表聯繫。

註：閱讀 PDF 檔需要使用 Acrobat Reader。使用者可從以下路徑下載 Acrobat Reader: get.adobe.com/reader (Acrobat is a trademark of Adobe)

如需更多有關這款產品及其它研華產品的資訊，請訪問研華網站：

<http://www.advantech.tw>



如需技術支援和服務，請訪問研華支援網站的 UNO-2484G V2 頁面：



本手冊适用于 UNO-2484G V2。

料號：2041248400

第一版
2023 年 8 月

產品規格

處理器

- Intel® 第十一代 Core™ i 處理器 Intel Celeron® 6305E
1.8GHz, or Core™ i3-1115G4E 2.2GHz/i5-1145G7E
1.5GHz/i7-1185G7E 1.8GHz

記憶體

- 8GB DDR4 3200MHz SO-DIMM (高達 64 GB)

顯示

- Intel® Iris® Xe Graphics

乙太網

- LAN A: Intel i219-LM 1Gb/s, IEEE 802.3, 802.1as/1588
- LAN B-D: Intel® i226-LM 2.5Gb/s, IEEE 802.3, 802.1as/1588

擴充/儲存

- 1 x M.2 B key slot (USB Signal for 3042/3052 LTE/5G/LTE module, SATA signal for storage)
- 1 x 2.5" SSD SATA drive bay (support SSD/HDD height up to 9.5mm)
Support RAID0/RAID1 with 2.5" SSD and M.2 B key 2242 SSD.
- 1 x M.2 M key (PCIex4) supports 2280 NVME SSD
- 2 x mPCIe slot (PCIe, USB2.0 signal)

前部 I/O

- 顯示: 1 x HDMI 1.4 (3840x2160@30Hz)
1 x DP 1.4a (4096x2304@60Hz)
- 串型端口: 4 x RS-232/422/485
- USB: 3 x USB 3.2 Gen2, 1 x USB2.0
- USB Type-C: 1 x USB3.2 Gen2, support DP1.4a Alt. mode
- Power Connector: 1 x 2 pins, terminal block

電源

- 輸入電壓 10 ~ 36 V_{DC}
- 電源輸入 30.2W (Typical), 85W (Max)

環境規格

- 工作溫度: -20 ~ 60° C (-4 ~ 140° F) @5 ~ 85% RH, 氣流速度 0.7 m/s
- 儲存溫度: -40 ~ 85° C (-40 ~ 185° F)
- 相對濕度: 10 ~ 95% RH @ 40° C (非凝結)

物理規格

- 尺寸 ((W x D x H) 40 x 140 x 200 mm (1.57 x 5.51 x 7.87 in)
- 重量 (淨重) 3 kg (6.61 lbs)

產品簡介

UNO-2484G V2 是一款嵌入式無風扇工業電腦，可縮短開發時間，並提供一系列網絡接口以滿足不同應用的各種需求。UNO-2484G V2 搭載第 11 代 Intel® Core™ i 處理器，配備 8 GB DDR4 RAM，並提供豐富接口：1 x GbE、3 x 2.5 GbE、2 x mPCIe、1 x M.2 B-key、1 x M.2 M-key、1 x HDMI、1 x DP、1 x USB2.0、3 x USB 3.2、1 x USB TypeC 和 4 x COM。它還支持 2 個 Mini PCIe 插槽（PCIe/USB2.0 信號）以方便擴展。可選第二堆棧擴展工具支持 2 個 iDoor 模塊，如工業現場总线、I/O 和外設模塊。

UNO-2484G V2 提供 1 個 M.2 B key 和 1 個 M.2 M key 接口，以方便擴展。它可以與高速 Wi-Fi 6、5G 和 NVMe SSD 集成，以實現高效的数据傳輸。UNO-2484G V2 支持多種驅動程序和操作系統，包括 Windows 10 和 Linux，用戶可在該平台上輕鬆集成應用，以便為各種需求提供多種功能。

認證

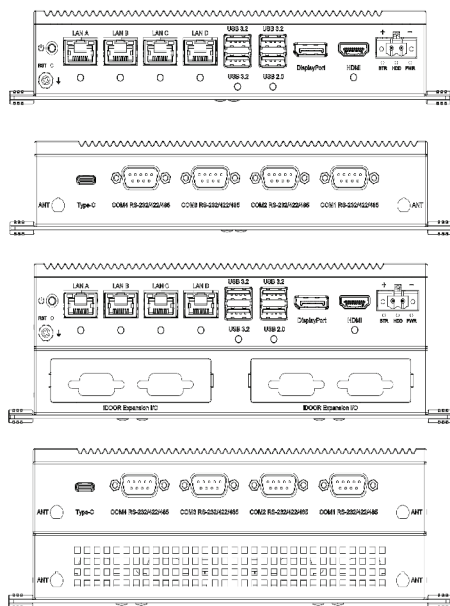
CE、FCC、UL、CCC、BSMI

符合性聲明

警告使用者

為避免電磁干擾，本產品不應安裝或使用於住宅環境。

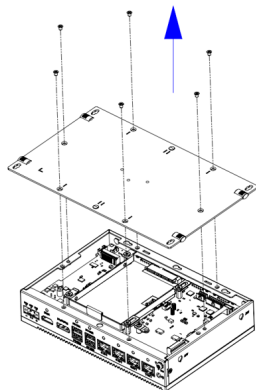
系統 I/O 接口



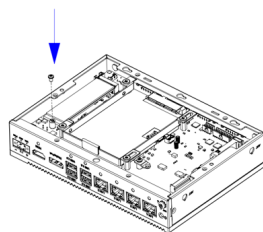
簡單安裝步驟

安裝 NVMe 2280 模組

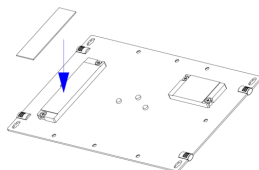
1. 卸下 M3 螺絲 (PN:1930001361x6)，並移除底蓋。



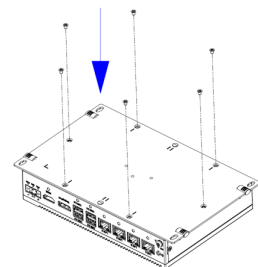
2. 裝上 NVMe 模組，再用 M3 螺絲 (PN:19350304A0x1) 固定。



3. 從配件包拿出 thermal pad (PN:1990038768N010x1)，並貼附於鋁塊上。



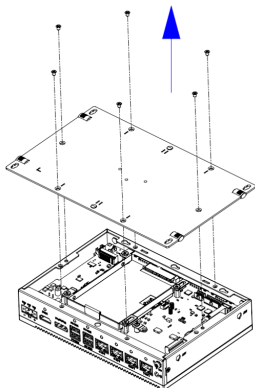
4. 蓋上底蓋並鎖回 M3 螺絲 (PN:1930001361x6)。



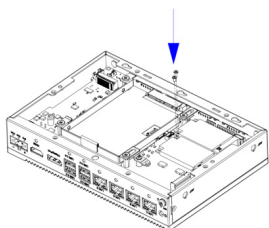
簡單安裝步驟（續）

安裝 miniPCIe 模組

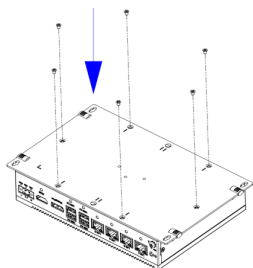
1. 卸下 M3 螺絲 (PN:1930001361x6), 並移除底蓋。



2. 裝上 mPCIe 模組, 再用 M2 螺絲 (PN:1930000198x1) 固定。



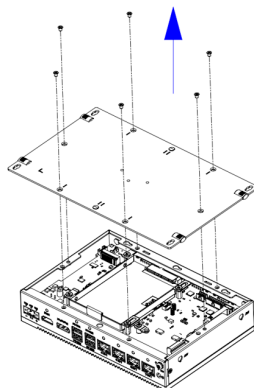
3. 蓋上底蓋並鎖回 M3 螺絲 (PN:1930001361x6)。



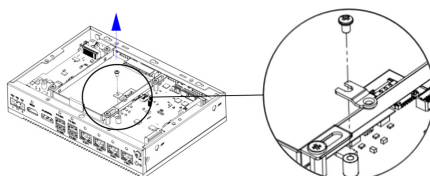
簡單安裝步驟（續）

安裝 M.2 B key 3052 模組

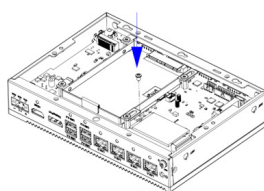
1. 卸下 M3 螺絲 (PN:1930001361x6), 並移除底蓋。



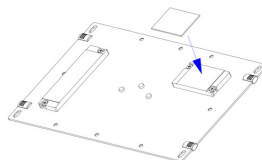
2. 將板上預先所好的鐵件 (PN:1960102502T000) 與螺絲 (PN:19350304A0x1) 卸除。



3. 裝上 M.2 3052 模組, 再用 M3 螺絲 (PN:19350304A0x1) 固定。

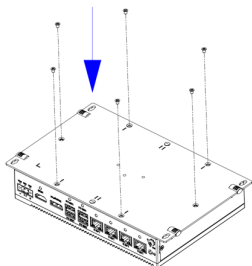


4. 建議從配件包拿出 thermal pad (PN:1990038769N010x1), 並貼附於鋁塊上。



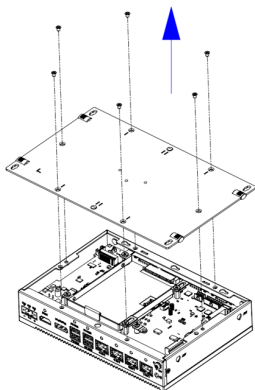
簡單安裝步驟（續）

5. 蓋上底蓋並鎖回 M3 螺絲(PN:1930001361x6)。

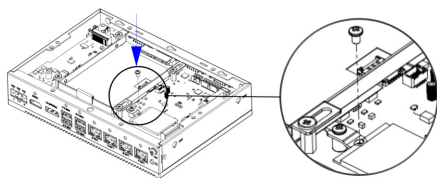


安裝 M.2 B key 2242 模組

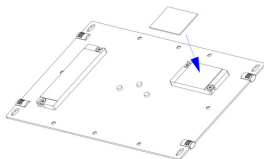
1. 卸下 M3 螺絲(PN:1930001361x6), 並移除底蓋。



2. 裝上 M.2 2242 模組, 再用 M3 螺絲(PN:19350304A0x1) 固定。

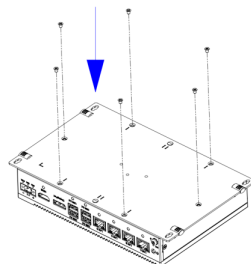


3. 從配件包拿出 thermal pad (PN:1990038769N010x1), 並貼附於鋁塊上。



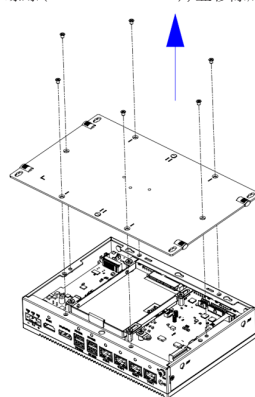
簡單安裝步驟（續）

4. 蓋上底蓋並鎖回 M3 螺絲(PN:1930001361x6)。

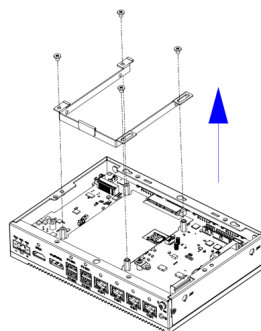


安裝 2.5" SSD 模組

1. 卸下 M3 螺絲(PN:1930001361x6), 並移除底蓋。

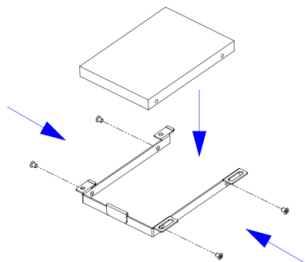


2. 卸除支架 (PN:1960084377N000) 與螺絲 (PN:1930008481x4)。

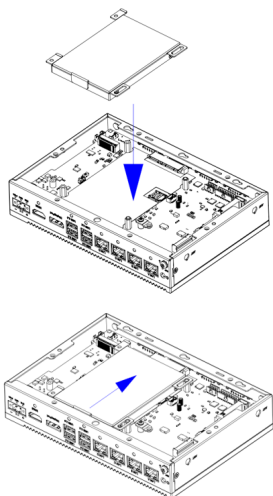


簡單安裝步驟（續）

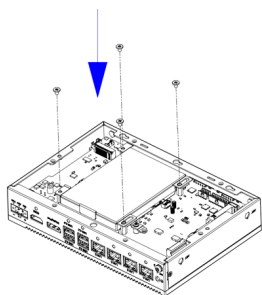
3. 將 SSD 裝在支架上, 使用 M3 螺絲 (PN:1930001361x4) 固定。



4. 將裝上 SSD 的支架放入系統中, 並滑入固定。

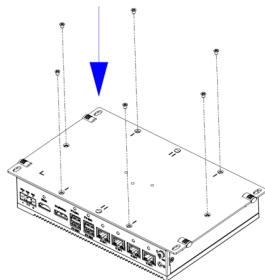


5. 鎖回 M3 螺絲 (PN:1930008481x4)。



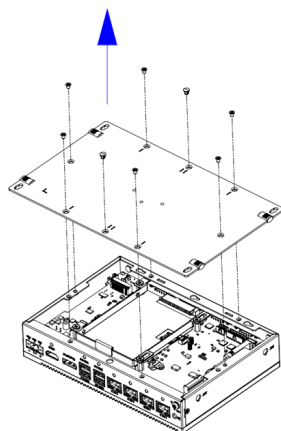
簡單安裝步驟（續）

6. 蓋上底蓋並鎖回 M3 螺絲 (PN:1930001361x6)。

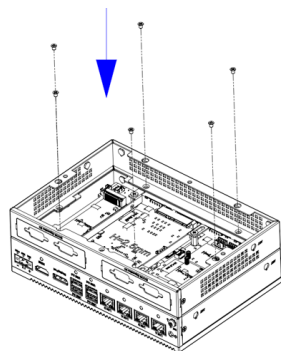


安裝 Expansion Kit

1. 卸下 M3 螺絲 (PN:1930001361x6) 與塞子 (PN:1990038767S000x2), 並移除底蓋。

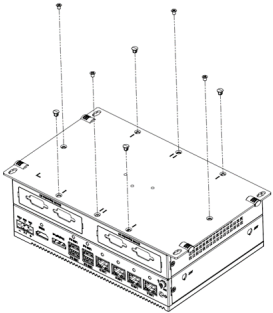


2. 安裝上擴充機殼並用 M3 螺絲 (PN:1930001361x6)。

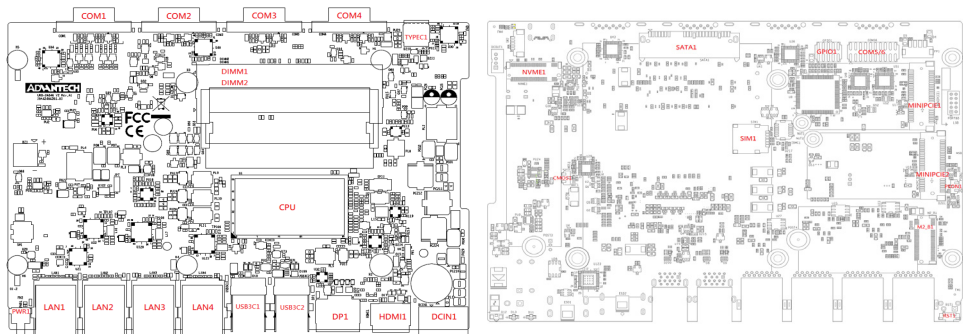


簡單安裝步驟（續）

3. 蓋上底蓋並鎖回 M3 螺絲(PN:1930001361x4)與塞子(PN:1990038767S000x4)。

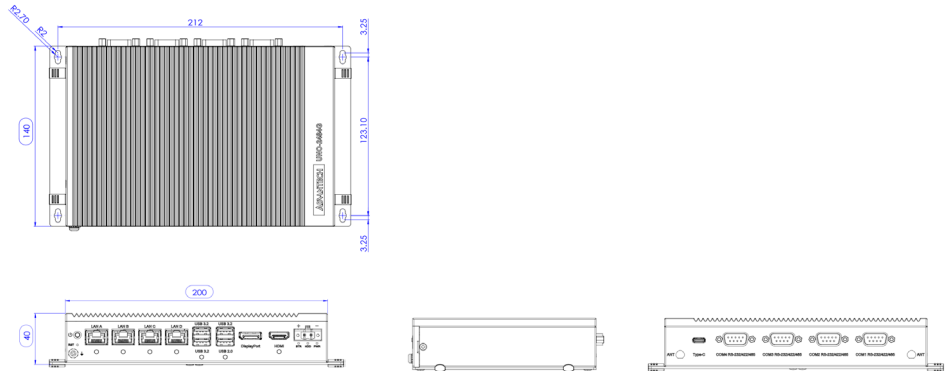


I/O 接頭



產品尺寸

UNO-2484G V2 尺寸



安全指示

1. 請仔細閱讀此安全操作說明。
2. 請妥善保存此用戶手冊供日後參考。
3. 用濕抹布清洗設備前，請確認拔除電源線。請勿使用液體或去汙噴霧劑清洗設備。
4. 對於使用電源線的設備，設備周圍必須有容易接觸到的電源插座。
5. 請勿在潮濕環境中試用設備。
6. 請在安裝前確保設備放置在可靠的平面上，意外掉落可能會導致設備損壞。
7. 設備機殼的開孔適用於空氣對，從而防止設備過熱。請勿覆蓋開孔。
8. 當您連接設備到電源插座前，請確認電源插座的電壓符合要求。
9. 請將電源線佈置在人們不易絆倒的位置，請勿在電源線上覆蓋任何雜物。
10. 請注意設備上所有的警告標示。
11. 如果長時間不使用設備，請拔除與電源插座的連結，避免設備被超目標電壓波動損壞。
12. 請勿讓任何液體流入通風口，以免引起火災或短路。
13. 請勿自行打開設備。為了確保您的安全，請透過經認證的工程師來打開設備。
14. 如遇下列情況，請由專業人員維修：
 - 電源線或插頭損壞；
 - 設備內部有液體流入；
 - 設備曾暴露在過度潮濕環境中使用；
 - 設備無法正常工作，或您無法透過用戶手冊來正常工作；
 - 設備摔落或損壞；
 - 設備有明顯外觀損；
15. 請勿將設備放置在超出建議溫度範圍的環境，即不要低於 -20°C (-4°F) 或高於 60°C (140°F)，以及請勿將 UNO-2271G-E231AE 放置在超出 -20°C (-4°F) 或高於 50°C (122°F)，否則可能會造成設備損壞。
16. 注意：若電池更換不正確，將有爆炸危險。因此，只可以使用製造商推薦的同一種或者同等型號的電池進行替換。請按照製造商的指示處理舊電池。
17. 根據 IEC 704 - 1:1982 規定，操作員所在位置音量不可高於 70 分貝。
18. 限制區域：請勿將設備安裝於限制區域使用。
19. 免責聲明：請安全訓示符合 IEC 704 - 1 要求。研華公司對其內容之準確性不承擔任何法律責任。
20. 本產品於國內裝置使用時，其電源僅限使用機架電源模組所提供直流電輸入，不得使用交流電源及附加其他電源轉換裝置提供電源，其電源輸入電壓及電流請依說明書規定使用。

限用物質含有情況標示聲明書

設備名稱：電腦 Equipment Name	型號(型式)：UNO-2484G V2 Type Designation (Type)					
單元 Unit	限用物質及其化學符號 Restricted Substances And Their Chemical Symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
電路板	-	○	○	○	○	○
內外殼 (外殼、內部框架…等)	○	○	○	○	○	○
其它固定組件 (螺絲)	-	○	○	○	○	○
記憶體	○	○	○	○	○	○
備考 1: 超出 0.1 wt % 及 “超出 0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 Note 1: Exceeding 0.1 wt % and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. 備考 2: “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考 3: “-” 係指該項限用物質為排除項目。 Note 3: The “-” indicates that the restricted substance corresponds to the exemption.						

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