

# MIC-78M10

## PCIe Expansion Module for MIC-78 Series

### Embedded Systems

# Startup Manual

## Packing List

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

- 1 x MIC-78M10 i-Module
- 1 x Startup Manual
- 2 x Wall mount bracket

If any of these items are missing or damaged, please contact 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](http://get.adobe.com/reader) (Acrobat is a trademark of Adobe.)

## Specifications

### PCIe Slots

- MIC-78M10:** 1 x PCIe x16 socket (PCIe x16 signal)
- Note 1:** PCIe x16 supports up to 75W power consumption.
- Note 2:** MIC-78M10 does not support MIC-770 series systems.
- 1 x 12V extra power socket**
- Note 1:** 12V extra power connector supports 25~75W.
- Note 2:** The total power consumption of the MIC-78M10 riser card can support 75W (PCIe x16 socket + 12V extra power)

### Environment

- Operating Temperature:** -20 ~ 60°C with 0.7 m/sec air flow, without PC expansion boards
- Storage Temperature:** -40 ~ 85°C (-40 ~185°F)
- Relative Humidity:** 95% @ 40°C (non-condensing)

### Mechanical

- i-Module dimensions (H x W x D):** 63 x 195 x 240 mm
- With MIC-78 series (H x W x D):** 113 x 195 x 240 mm
- With Mount kit (H x W x D):**
  - Vertical 113 x 200 x 240
  - Horizontal 118 x 195 x 240

## Selection Table

### Connectors

No.	Item	Function
1	SATA PWR CON	SATA Power connector
2	SATA Data CON	SATA connector
3	PCIe x16	PCIe x16 Socket

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This manual is for the MIC-78M10 Rev. A1.

Part No.204178M100

1st Edition

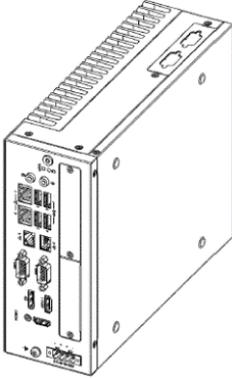
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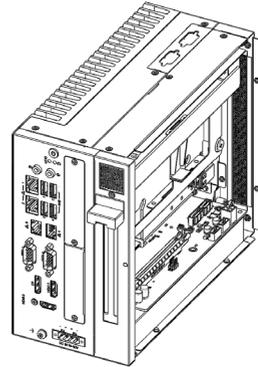
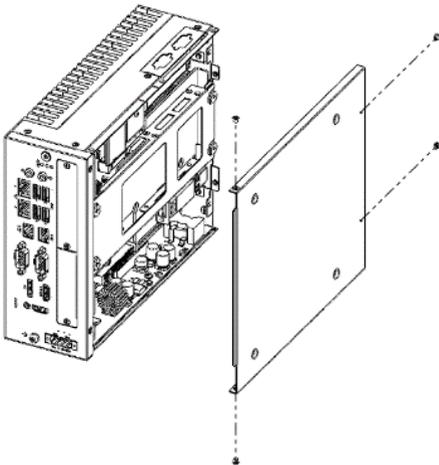
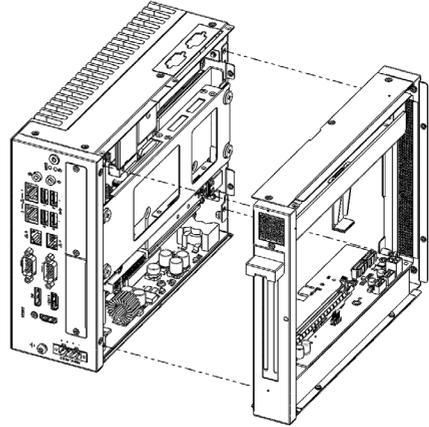
## Simple Maintenance Process

### System Installation

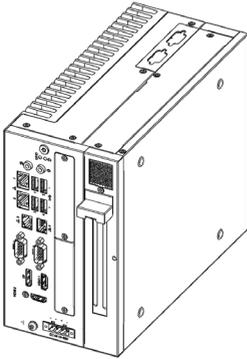
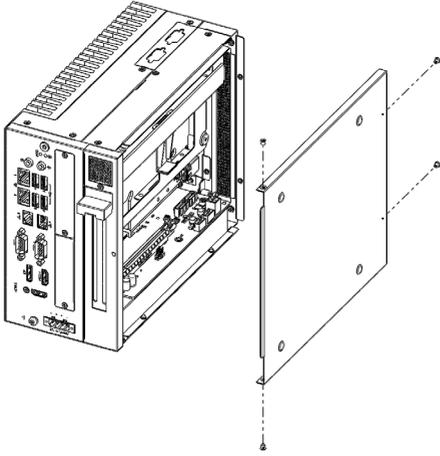
- The MIC-78 series i-module can be assembled with all MIC-78 series IPC systems.
1. Undo 4 screws on the MIC-78 series system to remove the bottom cover. Keep the bottom cover.
  2. Assemble the iModule with the MIC-78 series system and secure it using the 4 x screws to integrate the systems.
  3. Affix the 4 x screws to re-attach the bottom cover.



## Simple Maintenance Process (Cont.)



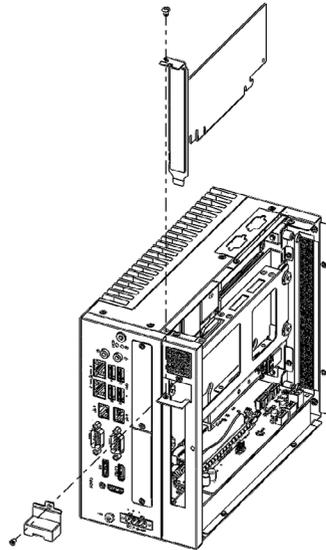
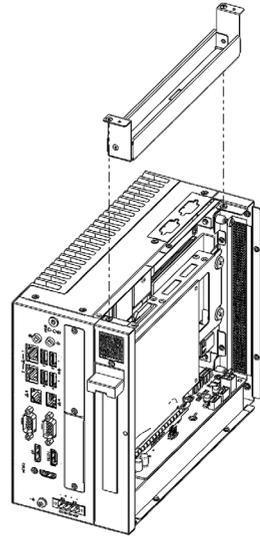
## Simple Maintenance Process (Cont.)



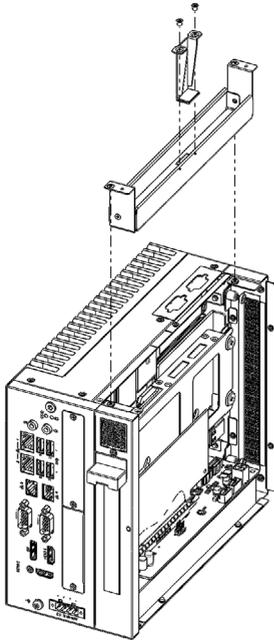
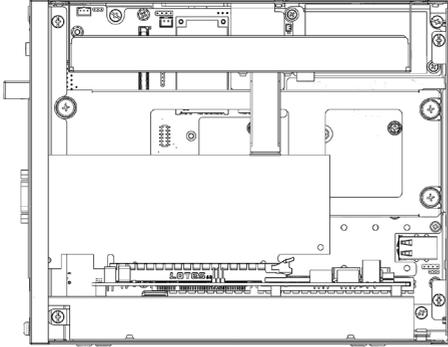
### PCIe Add-on Card Installation

1. Undo the screws from the top cover of the i-module.
2. Take off the PCIe card retention bracket.
3. Undo screws and remove the PCIe slot bracket.
4. Loosen the screw securing the PCIe bracket and carefully remove the bracket from the chassis.
5. Insert the PCIe expansion card into the designated PCIe slot.
6. Align the card's gold fingers with the backplane board's PCIe slot, then press it down firmly until fully seated.
7. Use the removed screws to fix the card bracket to the chassis, ensuring the card is properly secured.
8. Depending on whether the PCIe card is half-length or full length, use the corresponding accessory and secure it by fastening the PCIe retention bracket.
9. Re-install the PCIe retention bracket on iModule.
10. Secure the screws on the top cover of the i-module.

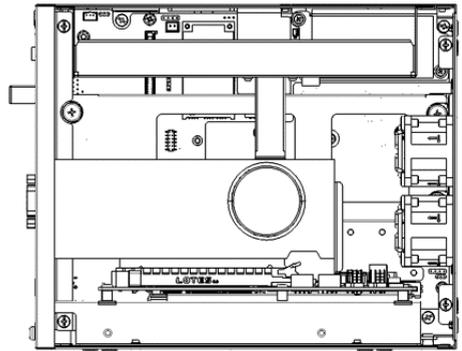
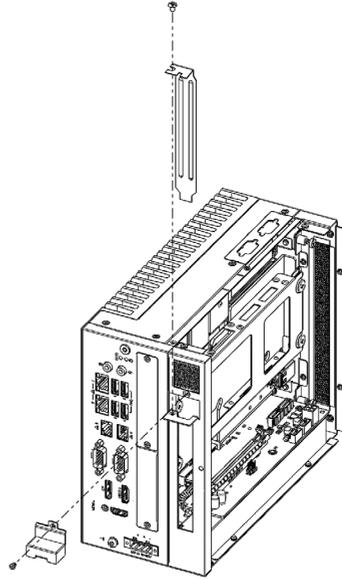
## Simple Maintenance Process (Cont.)



## Simple Maintenance Process (Cont.)

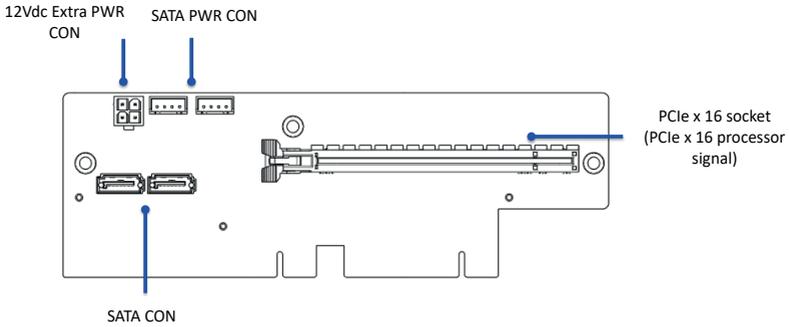


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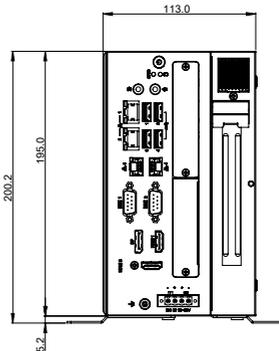
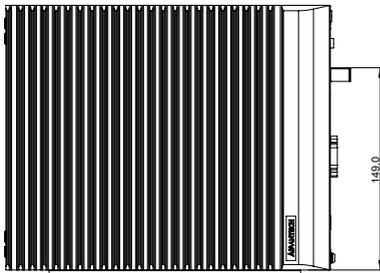
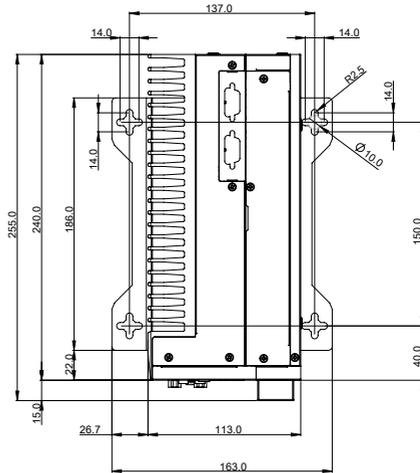
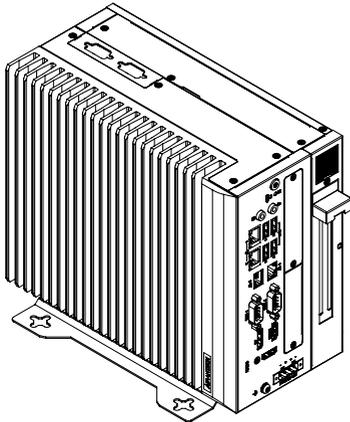
# I/O Connectors

## MIC-78M10



# System Dimensions Table Mount Vertical

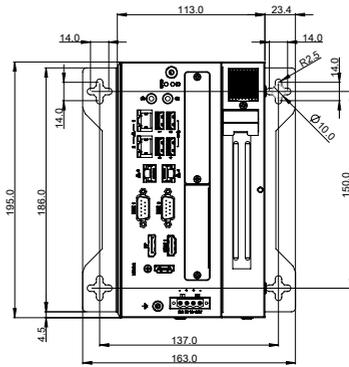
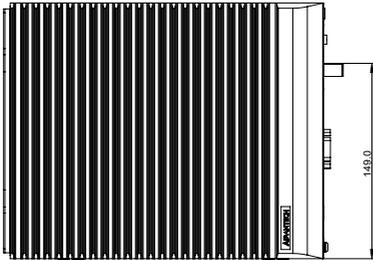
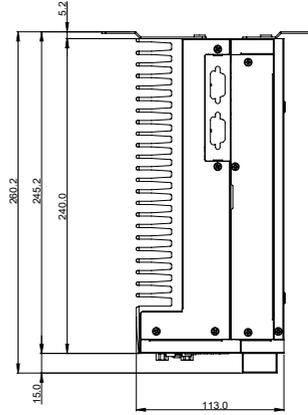
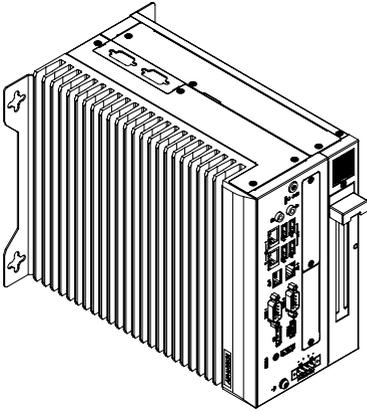
Unit:mm





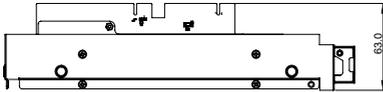
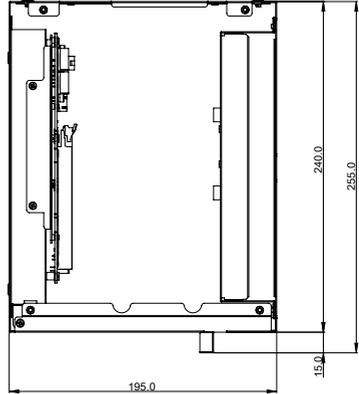
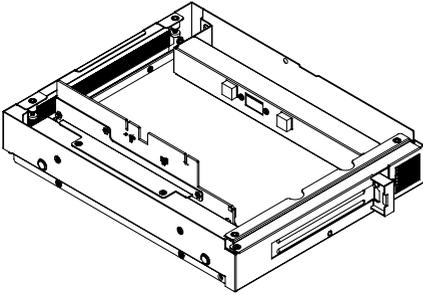
# System Dimensions Wall Mount

Unit:mm



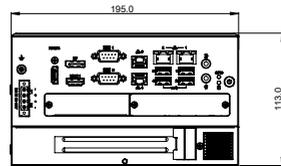
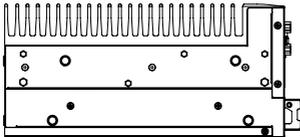
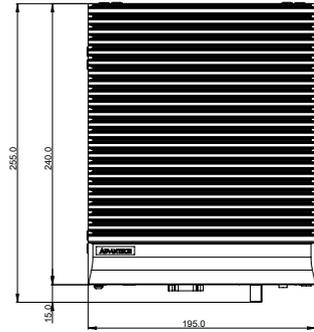
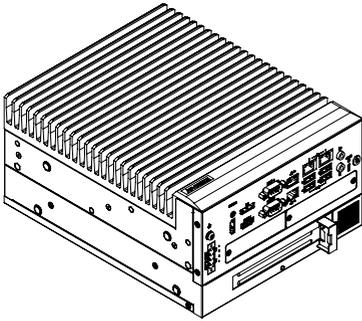
# System Dimensions for iModule

Unit:mm



# System Dimensions for iModule + MIC-780 Series Without Mounting Kit

Unit:mm



## MIC-78M10

# 适用于 MIC-78 系列嵌入式系统的 PCIe 扩展模块 快速入门手册

### 包装清单

安装系统之前，用户需确认包装中含有下面所列各项：

- 1 x MIC-78M10 模块
- 1 x 快速入门手册
- 2 x 壁挂式安装支架

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](http://get.adobe.com/reader) (Acrobat is a trademark of Adobe)

### 产品规格

#### PCIe 插槽

• MIC-78M10: 1 x PCIe x 16 插槽 (支持 PCIe x 16 信号传输)

注 1: PCIe x16 插槽最高支持 75W 功耗。

注 2: MIC-78M10 不支持 MIC-770 系列系统。

• 1 个 12V 额外供电接口

注 1: 12V 额外供电接口支持 25 ~ 75W 功耗。

注 2: MIC-78M10 riser card 总功耗最高支持 75W (PCIe x16 插槽 + 12V 额外供电接口)。

#### 环境规格

• 工作温度: -20 ~ 60° C, 0.7 m/sec 气流: 不带 PC 扩展板

• 储存温度: -40 ~ 85° C (-40 ~ 185° F)

• 相对湿度: 95% @ 40° C (非凝结)

#### 物理规格

• i-Module 尺寸 (H x W x D): 63 x 195 x 240 mm

• 加上 MIC-78 系列后的尺寸 (H x W x D): 113 x 195 x 240 mm

• 加上安装支架后的尺寸 (H x W x D):

- 垂直: 113 x 200 x 240

- 水平: 118 x 195 x 240

### 选型表

#### 接口

编号	项目	功能
1	SATA PWR CON	SATA 电源接口
2	SATA Data CON	SATA 接口
3	PCIe x 16	PCIe x 16 插槽

如需了解有关产品及研华其它产品的详细信息，请访问研华网站：

<http://www.advantech.com.cn>

如需技术支持与服务，请访问研华网站：

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本手册适用于 MIC-78M10 Rev. A1。

料号: 204178M100

第一版

中国印刷

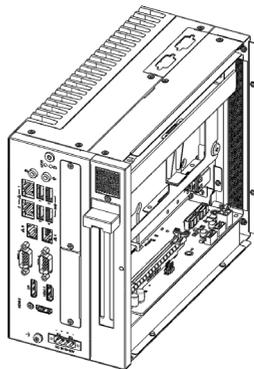
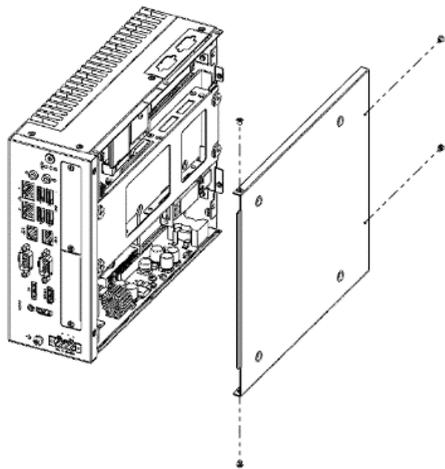
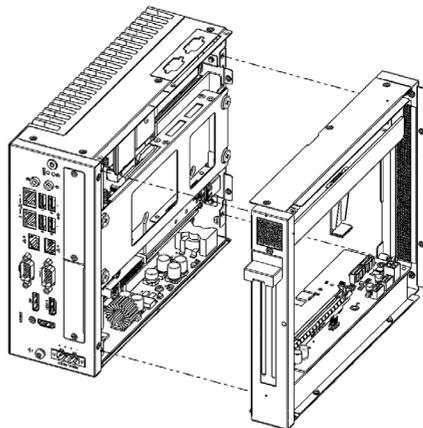
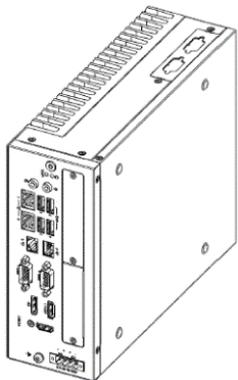
2025 年 12 月

## 简单安装步骤

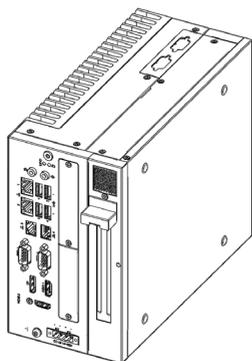
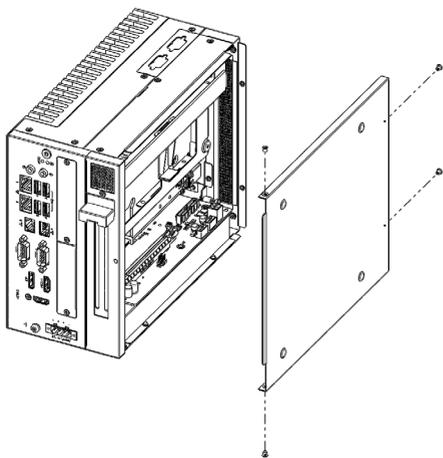
### 系统安装

MIC-78 系列 i 模块可安装于全系 MIC-78 IPC 系统。

1. 卸下 MIC-78 系列上的 4 颗螺丝，取下底盖并妥善保管。
2. 将 iModule 与 MIC-78 系列组装对齐，使用 4 颗螺丝进行固定以整合系统。
3. 重新安装底盖并拧紧 4 颗螺丝。



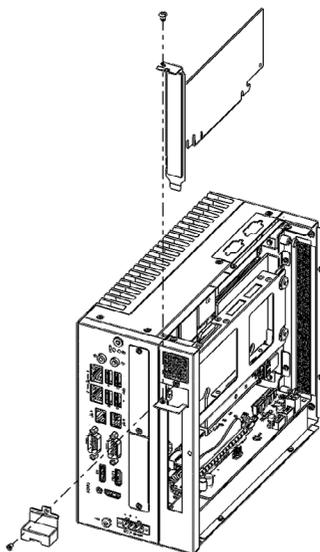
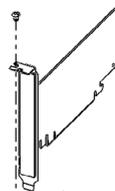
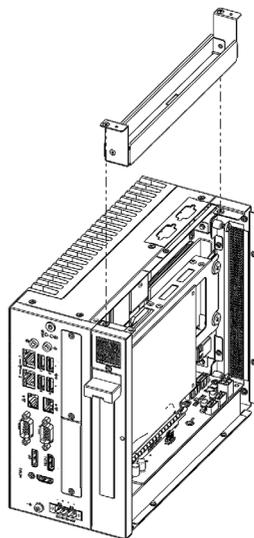
## 简单安装步骤（续）



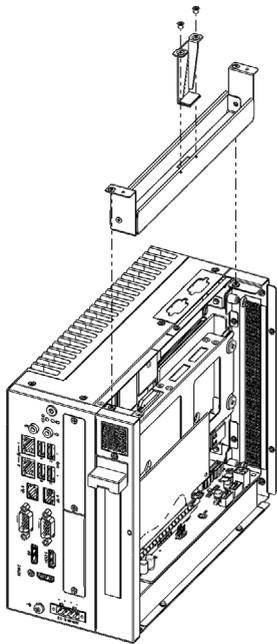
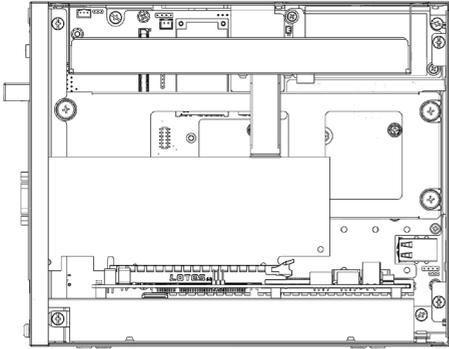
### PCIe 附加卡安装步骤

1. 卸下 i 模块顶盖的螺丝。
2. 取下 PCIe 卡固定支架。
3. 卸下螺丝并移除 PCIe 插槽支架。
4. 拧松固定 PCIe 支架的螺丝，从机箱中取出支架。
5. 将 PCIe 扩展卡插入指定的 PCIe 插槽。
6. 将卡的金手指与背板上的 PCIe 插槽对齐，用力按下直至完全卡入位。
7. 使用卸下的螺丝将卡支架固定至机箱，确保扩展卡牢固安装。
8. 根据 PCIe 卡半长或全长的规格，选用对应配件并通过 PCIe 固定支架锁紧。
9. 将 PCIe 固定支架重新安装到 iModule 模块上。
10. 锁紧 i 模块顶盖上的螺丝。

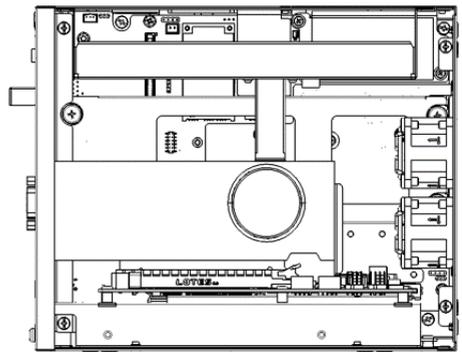
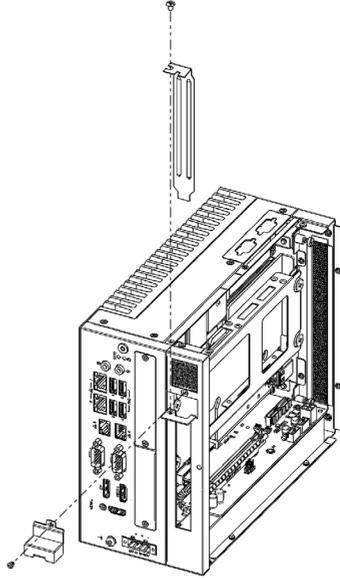
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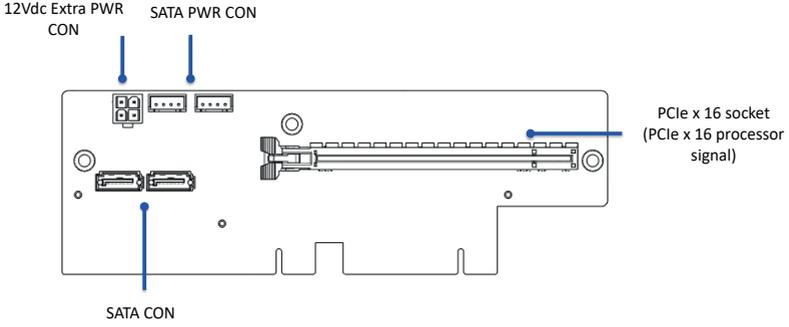
## 简单安装步骤 (续)



## 简单安装步骤 (续)

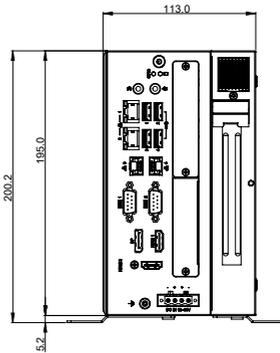
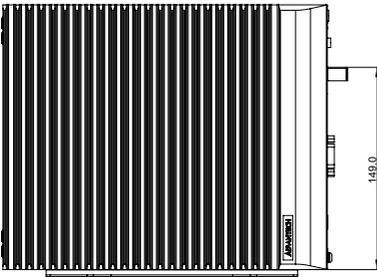
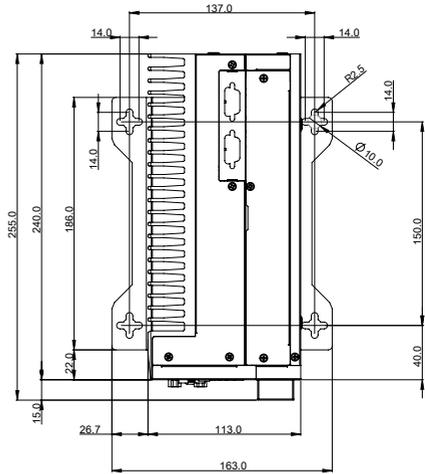
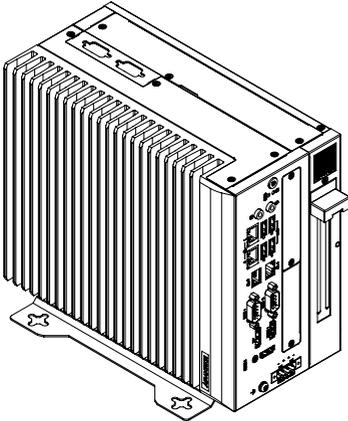


# I/O 接口



# 系统尺寸：桌面垂直安装

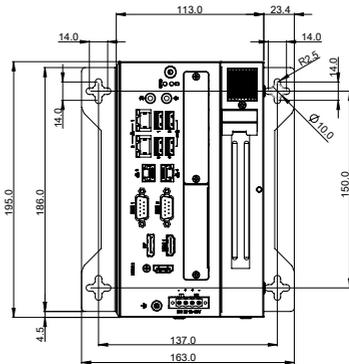
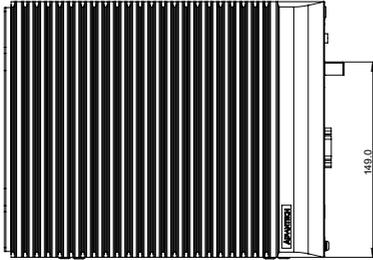
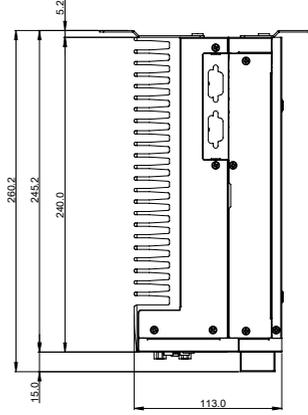
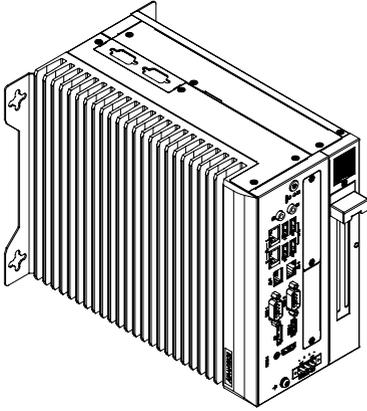
Unit:mm



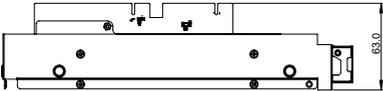
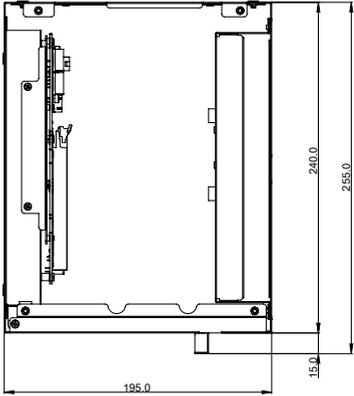
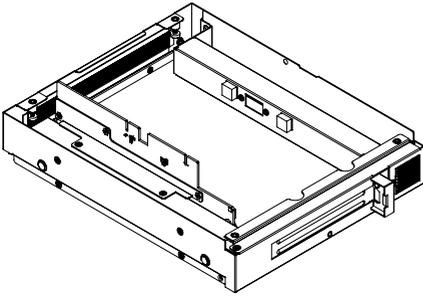


# 系统尺寸：壁挂安装

Unit:mm

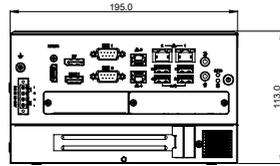
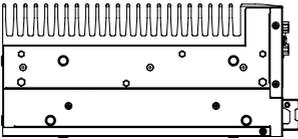
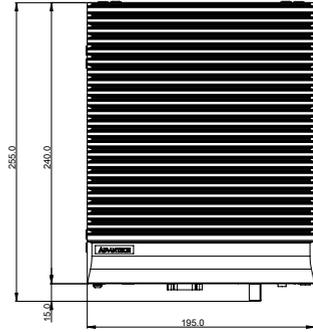
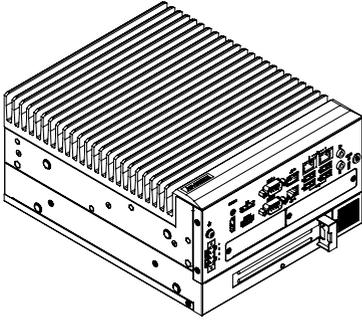


Unit:mm



系统尺寸: iModule + MIC-780 系列 (不含安装套件)

Unit:mm



## MIC-78M10

## 適用於 MIC-78 系列嵌入式系統的 PCIe 擴展模組

## 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 x MIC-78M10 模塊
- 1 x 快速入門手冊
- 2 x 壁掛式安裝支架

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## 產品規格

## PCIe 插槽

• MIC-78M10: 1 x PCIe x 16 插槽 (支援 PCIe x 16 信號傳輸)

注 1: PCIe x16 插槽最高支援 75W 功耗。

注 2: MIC-78M10 不支援 MIC-770 系列系統。

• 1 個 12V 額外供電介面

注 1: 12V 額外供電介面支援 25 ~ 75W 功耗。

注 2: MIC-78M10 riser card 總功耗最高支持 75W (PCIe x16 插槽 + 12V 額外供電介面)。

## 環境規格

• 工作溫度: -20 ~ 60° C, 0.7 m/sec 氣流: 不帶 PC 擴展板

• 儲存溫度: -40 ~ 85° C (-40 ~ 185° F)

• 相對濕度: 95% @ 40° C (非凝結)

## 物理規格

• i-Module 尺寸 (H x W x D): 63 x 195 x 240 mm

• 加上 MIC-78 系列後的尺寸 (H x W x D): 113 x 195 x 240 mm

• 加上安裝支架後的尺寸 (H x W x D):

- 垂直: 113 x 200 x 240
- 水平: 118 x 195 x 240

## 選型表

## 介面

編號	項目	功能
1	SATA PWR CON	SATA 電源介面
2	SATA Data CON	SATA 介面
3	PCIe x 16	PCIe x 16 插槽

如需瞭解有關產品及研華其它產品的詳細資訊，請訪問研華網站：

<http://www.advantech.com>

如需技術支援與服務，請訪問研華網站：

<https://support.advantech.com>

本手冊適用於 MIC-78M10 Rev. A1。

料號: 204178M100

第一版

中國印刷

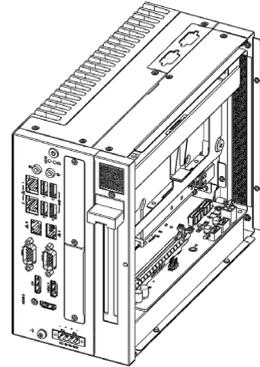
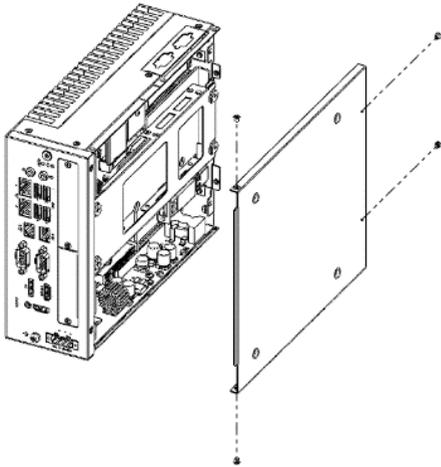
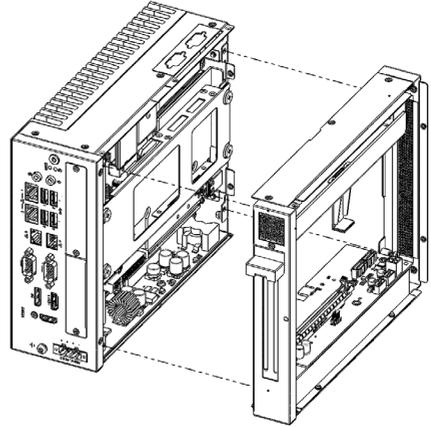
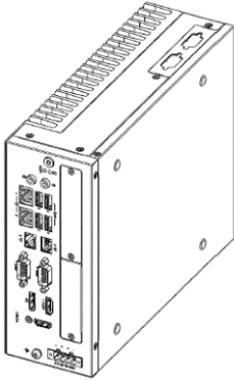
2025 年 12 月

## 簡單安裝步驟

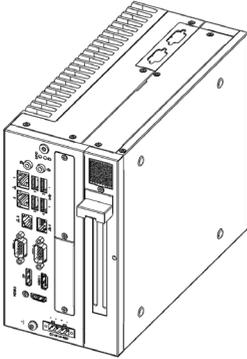
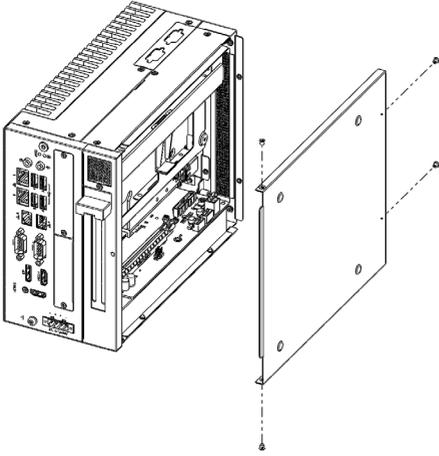
### 系統安裝

MIC-78 系列 i 模組可安裝於全系 MIC-78 IPC 系統。

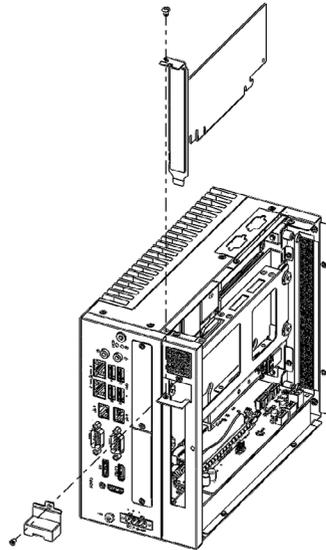
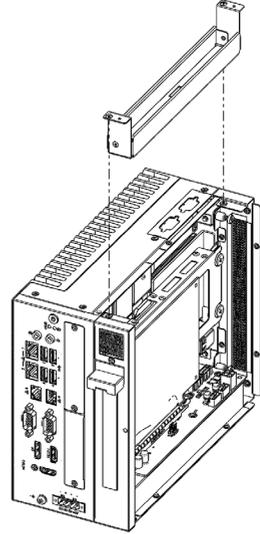
1. 卸下 MIC-78 系列上的 4 顆螺絲，取到底蓋並妥善保管。
2. 將 iModule 與 MIC-78 系列組裝對齊，使用 4 顆螺絲進行固定以整合系統。
3. 重新安裝底蓋並擰緊 4 顆螺絲。



## 簡單安裝步驟（續）



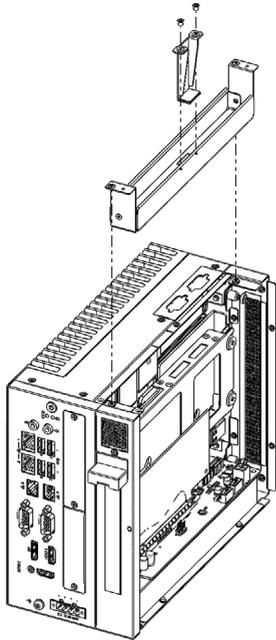
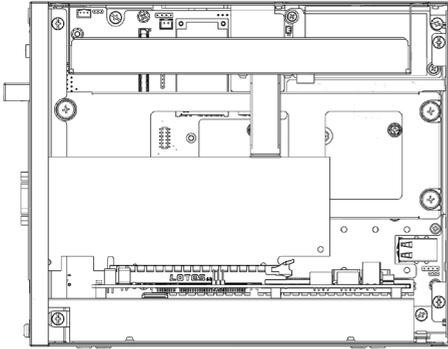
## 簡單安裝步驟（續）



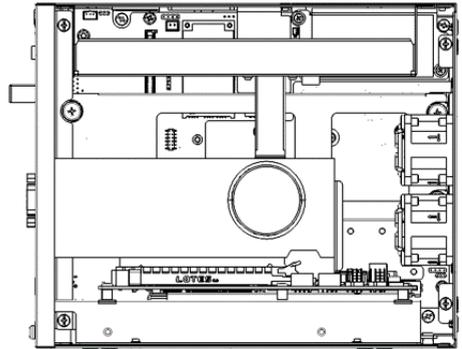
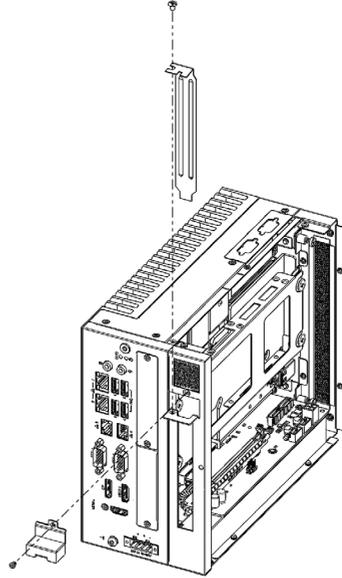
### PCIe 附加卡安裝步驟

1. 卸下 i 模組頂蓋的螺絲。
2. 取下 PCIe 卡固定支架。
3. 卸下螺絲並移除 PCIe 插槽支架。
4. 擰松固定 PCIe 支架的螺絲，從主機殼中取出支架。
5. 將 PCIe 擴展卡插入指定的 PCIe 插槽。
6. 將卡的金手指與背板上的 PCIe 插槽對齊，用力按下直至完全卡入位。
7. 使用卸下的螺絲將卡支架固定至主機殼，確保擴展卡牢固安裝。
8. 根據 PCIe 卡半長或全長的規格，選用對應配件並通過 PCIe 固定支架鎖緊。
9. 將 PCIe 固定支架重新安裝到 iModule 模組上。
10. 鎖緊 i 模組頂蓋上的螺絲。

簡單安裝步驟 (續)



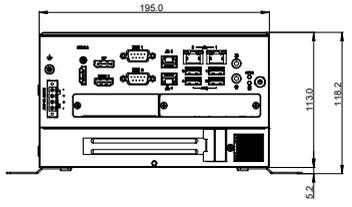
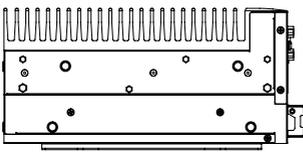
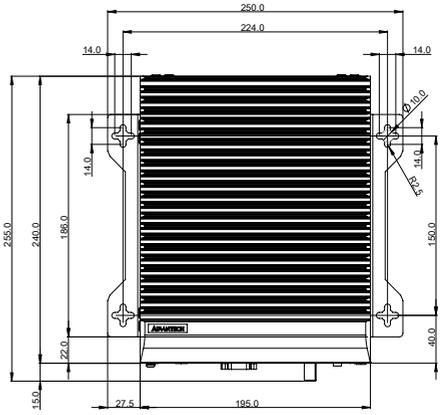
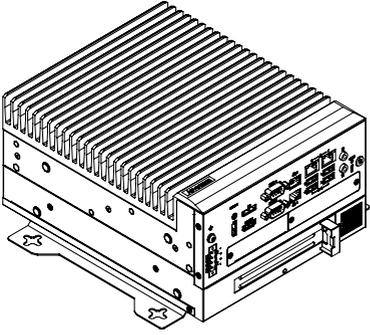
簡單安裝步驟 (續)





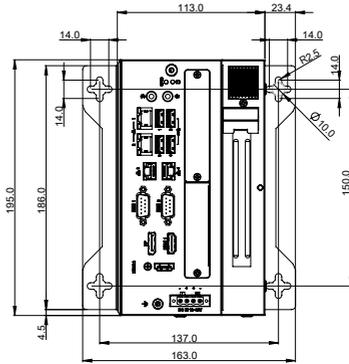
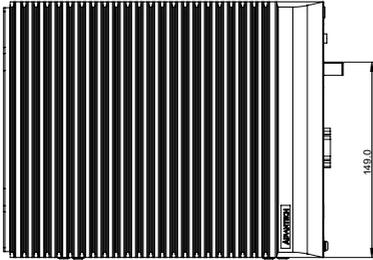
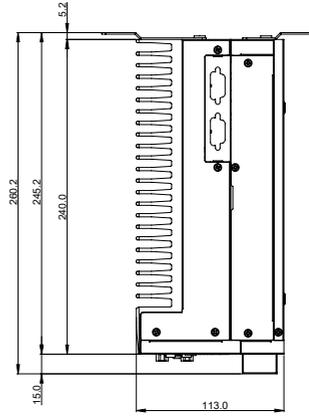
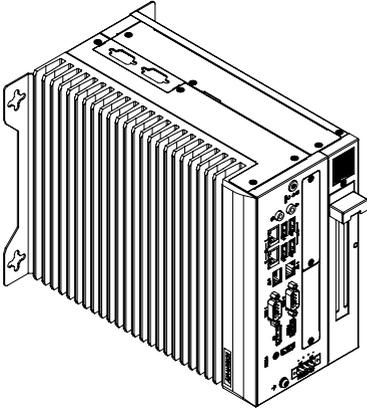
系統尺寸：桌面水平安裝

Unit:mm



系統尺寸：壁掛安裝

Unit:mm



Unit:mm

