

# EC51x-ADS

## Modular-Designed Embedded System

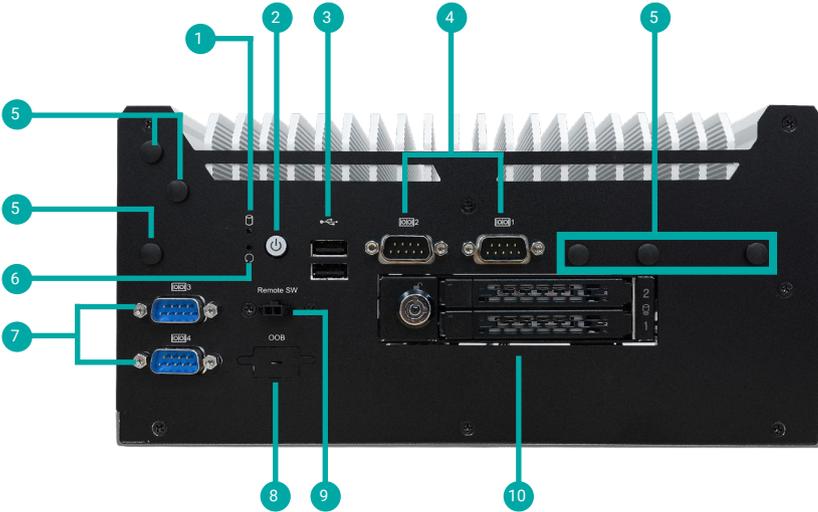


### Package Contents

1 EC51x-ADS system unit
1 M.2 slot screw
1 terminal block 3-pole for DC input
1 cable with 2 wire stripped and tinned to DC jack

# Product Overview

## Front View



1 HDD LED

2 Power Button

3 USB 2.0

4 COM Ports 1~2

5 Antenna Hole

6 Reset Button

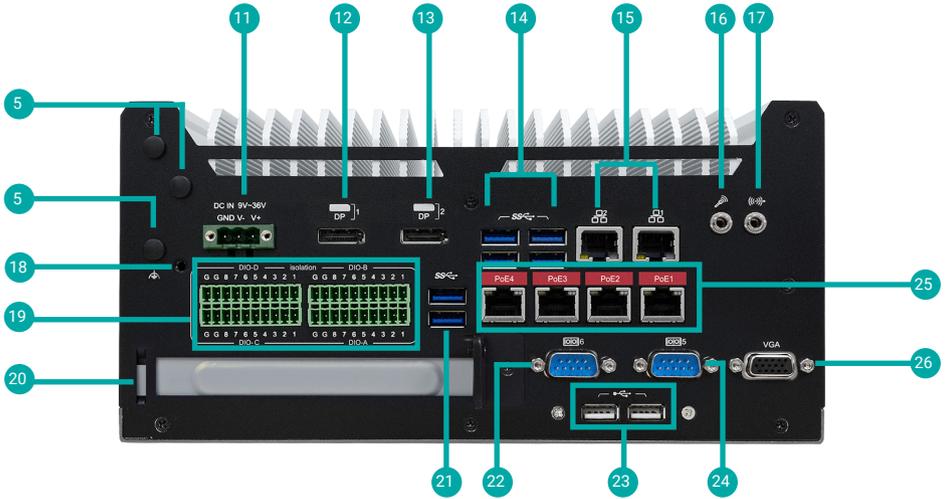
7 COM Ports 3~4

8 OOB (optional)

9 Remote Switch

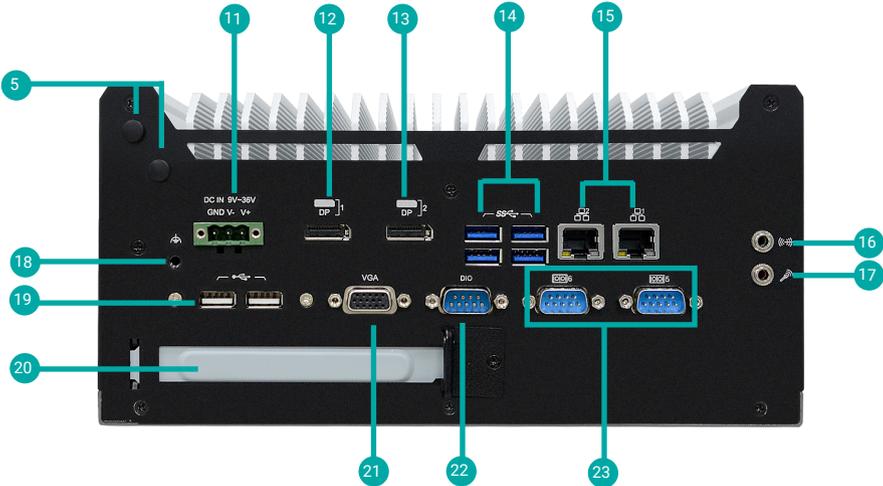
10 2.5" SSD Storage Driver Bay

# Rear View: EC51x-ADS62GA6E-Q



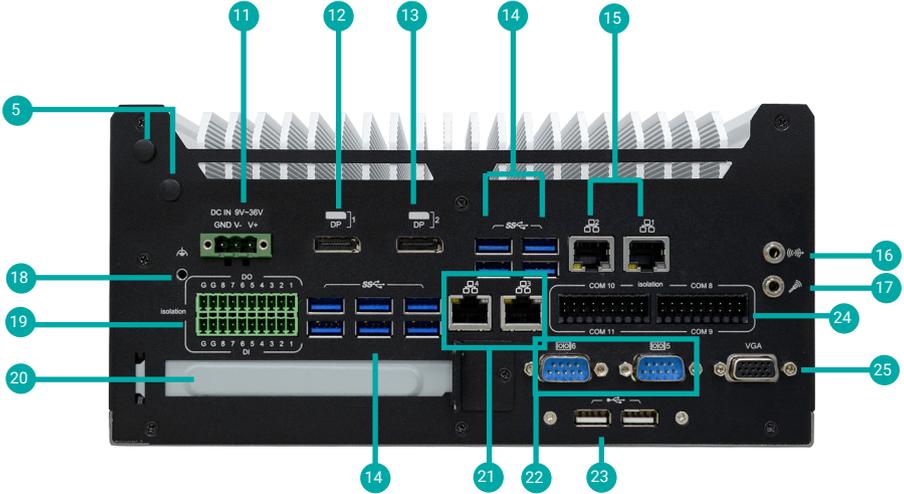
- |    |         |    |                |    |            |
|----|---------|----|----------------|----|------------|
| 11 | DC-in   | 16 | Mic-In         | 23 | USB2.0     |
| 12 | DP++ 1  | 17 | Line-Out       | 24 | COM Port 5 |
| 13 | DP++ 2  | 18 | Grounding      | 25 | PoE        |
| 14 | USB 3.1 | 19 | DIO            | 26 | VGA        |
| 15 | LAN 1~2 | 20 | Expansion Slot |    |            |
|    |         | 21 | USB3.2 Gen2 x1 |    |            |
|    |         | 22 | COM Port 6     |    |            |

Rear View : EC51x-ADS6881-Q



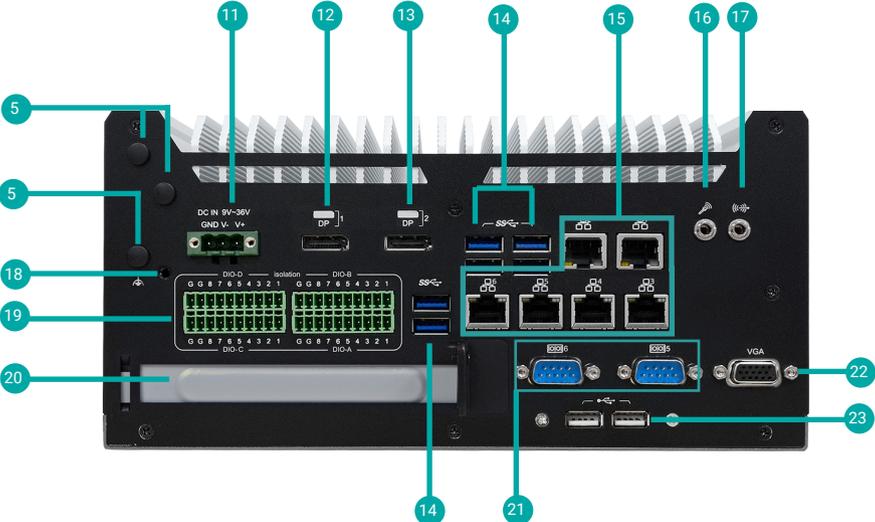
- |    |                |    |                |
|----|----------------|----|----------------|
| 11 | DC-in          | 18 | Grounding      |
| 12 | DP++ 1         | 19 | USB 2.0        |
| 13 | DP++ 2         | 20 | Expansion Slot |
| 14 | USB3.2 Gen2 x1 | 21 | VGA            |
| 15 | LAN 1~2        | 22 | DIO            |
| 16 | Line-Out       | 23 | COM Port 5 ~6  |
| 17 | Mic-In         |    |                |

# Rear View : EC51x-ADSAGE4-Q



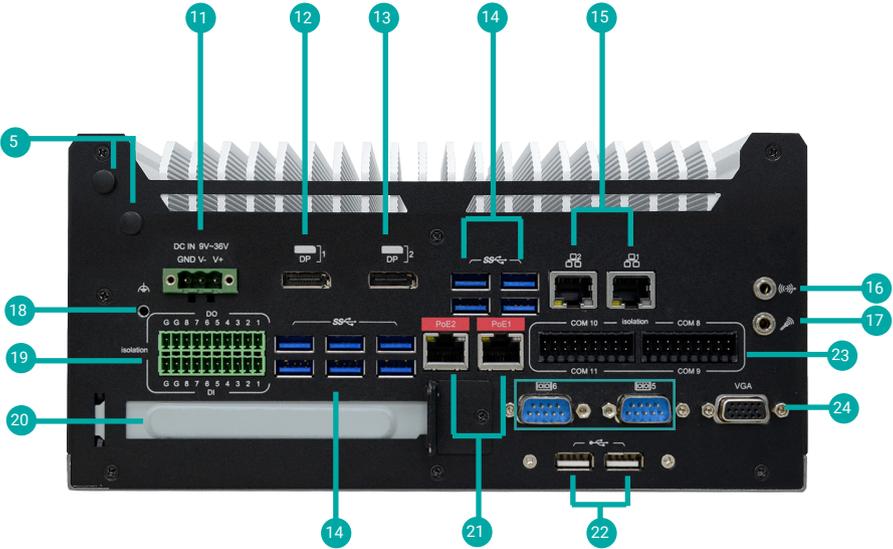
- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>11 DC-in</li> <hr/> <li>12 DP++ 1</li> <hr/> <li>13 DP++ 2</li> <hr/> <li>14 USB3.2 Gen2 x1</li> <hr/> <li>15 LAN 1~2</li> <hr/> <li>16 Line-Out</li> <hr/> <li>17 Mic-In</li> <hr/> </ul> | <ul style="list-style-type: none"> <li>18 Grounding</li> <hr/> <li>19 DIO</li> <hr/> <li>20 Expansion Slot</li> <hr/> <li>21 LAN 3~4</li> <hr/> <li>22 COM Port 5~6</li> <hr/> <li>23 USB2.0</li> <hr/> <li>24 COM Port 8~11</li> <hr/> <li>25 VGA</li> <hr/> </ul> |
|---|---|

# Rear View : EC51x-ADS62GA6-Q



- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>11 DC-in</li> <li>12 DP++ 1</li> <li>13 DP++ 2</li> <li>14 USB3.2 Gen2 x1</li> <li>15 LAN 1~2</li> <li>16 Mic-In</li> <li>17 Line-Out</li> </ul> | <ul style="list-style-type: none"> <li>18 Grounding</li> <li>19 DIO</li> <li>20 Expansion Slot</li> <li>21 COM Port 5 ~6</li> <li>22 VGA</li> <li>23 USB 2.0</li> </ul> |
|---|---|

# Rear View : EC51x-ADSAGE4E-Q



- |    |                |    |                |
|----|----------------|----|----------------|
| 11 | DC-in          | 18 | Grounding      |
| 12 | DP++ 1         | 19 | DIO            |
| 13 | DP++ 2         | 20 | Expansion Slot |
| 14 | USB3.2 Gen2 x1 | 21 | PoE            |
| 15 | LAN 1~2        | 22 | USB 2.0        |
| 16 | Line-Out       | 23 | COM Port 8~11  |
| 17 | Mic-In         | 24 | VGA            |

## Removing the Chassis Cover

Please observe the following guidelines and follow the instructions to open the system.

1. Make sure the system and all other peripheral devices connected to it have been powered off.
2. Disconnect all power cords and cables.

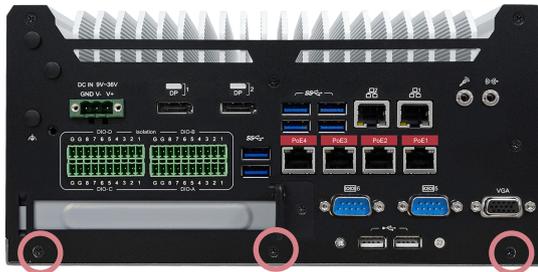
### Step 1:

There are 6 screws on both front and rear sides of the system and 6 screws on the left and right sides of the system used to secure the cover to the chassis. Remove the screws and put them in a safe place for later use.

Front View



Rear View



Left View

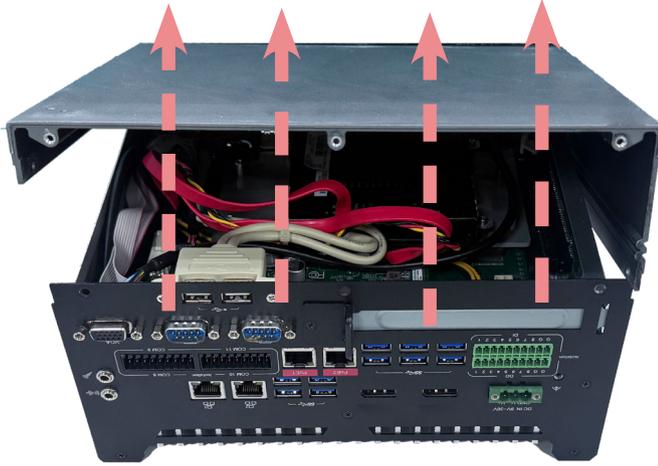


Right View



**Step 2:**

Turn the system upside down and lift the cover to open the system.



**Step 3:**

The boards can be easily accessed after the chassis cover is removed.



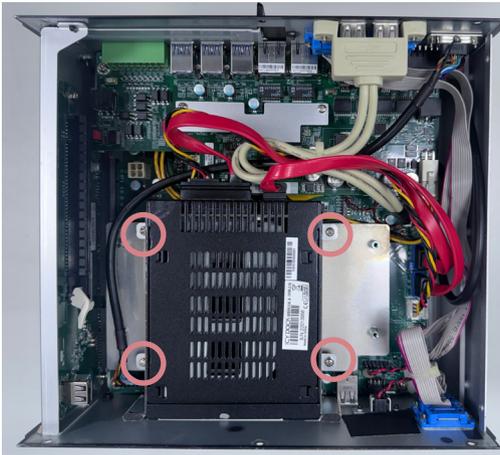
## Installing an M.2 Card

Please observe the following guidelines and follow the instructions to open the system.

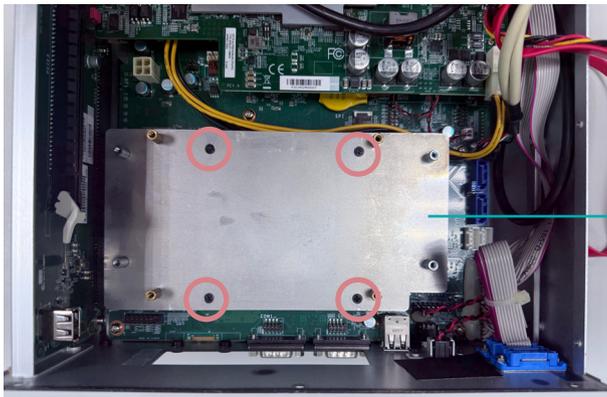
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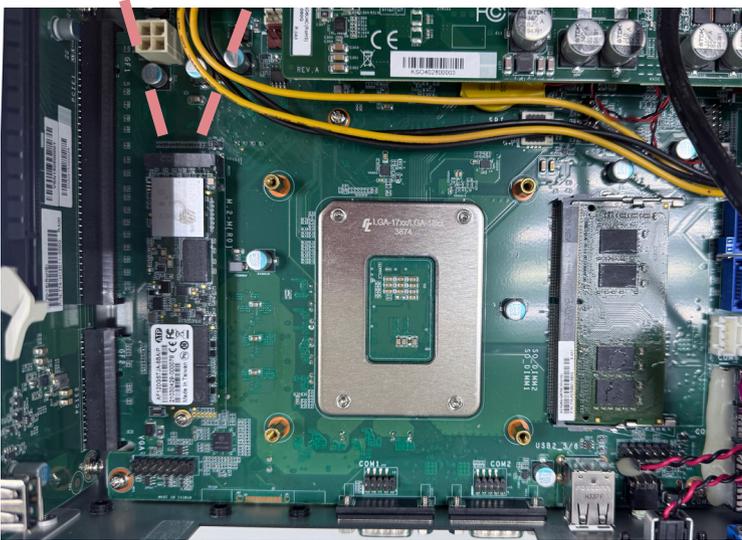
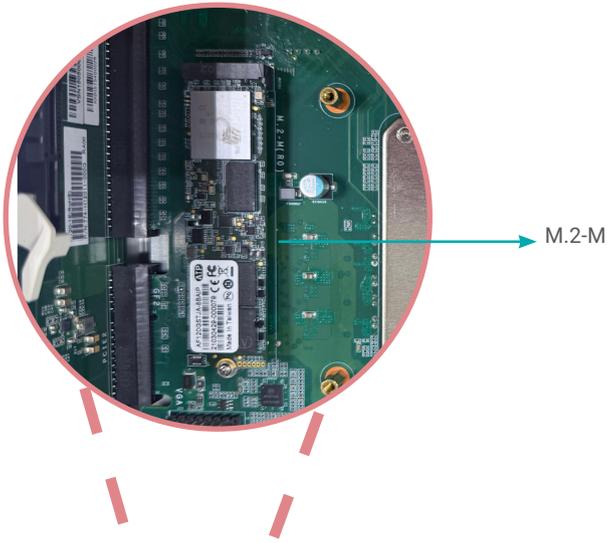
### Step 1:

Remove four screws and put them in a safe place for later use.  
After removing the screws, gently pull the SSD slot out of the system.



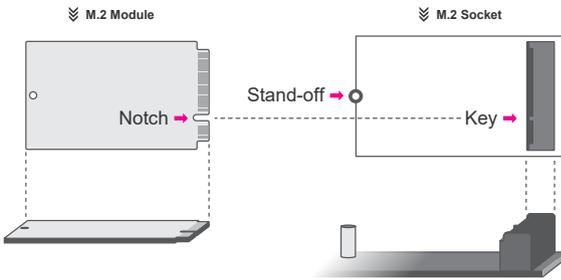
Remove four mounting screws and put them in a safe place for later use.  
Disassemble the heat sink to access the M.2 M Key.





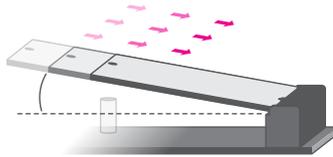
### Step 2:

Please follow the steps below to install the card into the socket. Insert the card into the socket at an angle while making sure the notch and key are perfectly aligned.



### Step 3:

Press the end of the card far from the socket down until against the stand-off.



### Step 4:

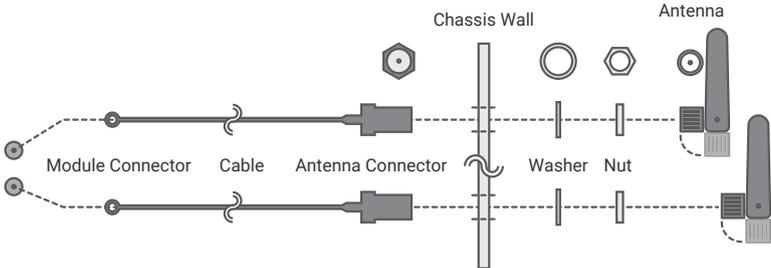
Screw tight the card onto the stand-off with a screw driver and a stand-off screw until the gap between the card and the stand-off closes up. The card should be lying parallel to the board when it's correctly mounted.





**Step 2:**

Connect the internal cable to the board's antenna connector, screw the antenna connector through the antenna hole with washers and nuts, and screw on the antenna as illustrated below.

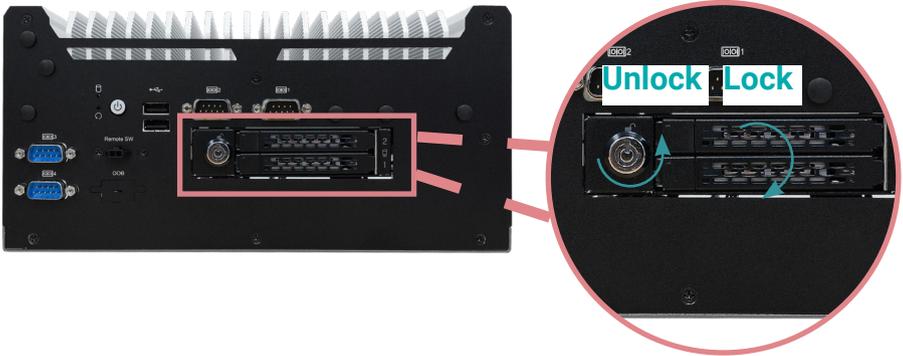


## Inserting a HDD/SDD

The drive bay can be easily accessed without opening the system. Before inserting a HDD/SDD, please turn off the system first. Use the following procedure to install a SATA HDD or SSD to the system:

### Step 1:

Locate the drive bay on the front of the system



### Step 2:

Slightly push the latch to unlock the door.



**Step 3:**

Slide the drive into the slot until the drive is fully seated.  
Close the drive latch to lock the drive in place.



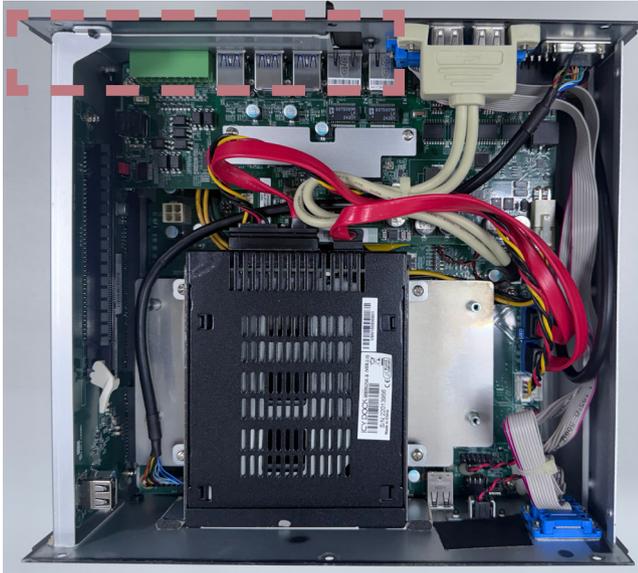
**Important:**

Excessive force may damage its mechanical parts.  
If the HDD/SSD is inserted backward into the slot, forcing the device may damage the slot.



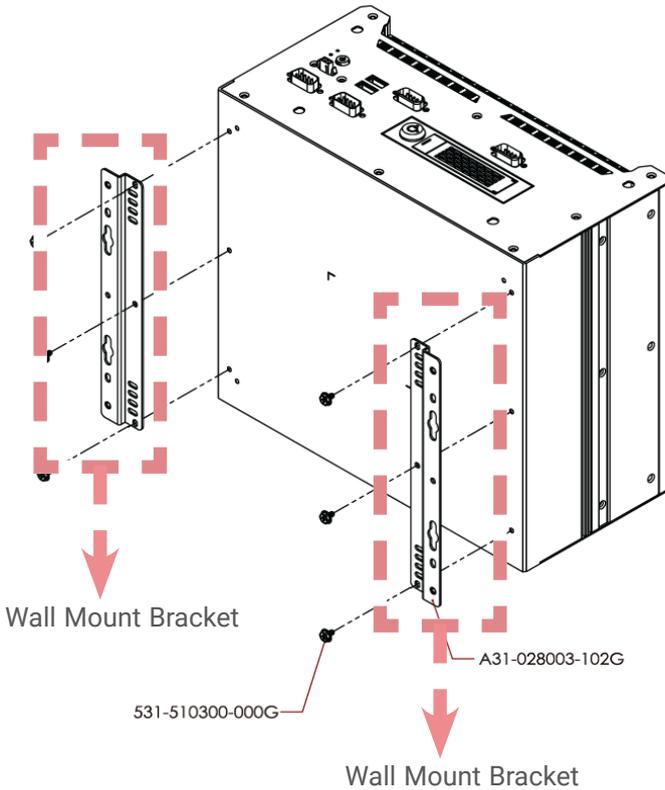
Step 2:

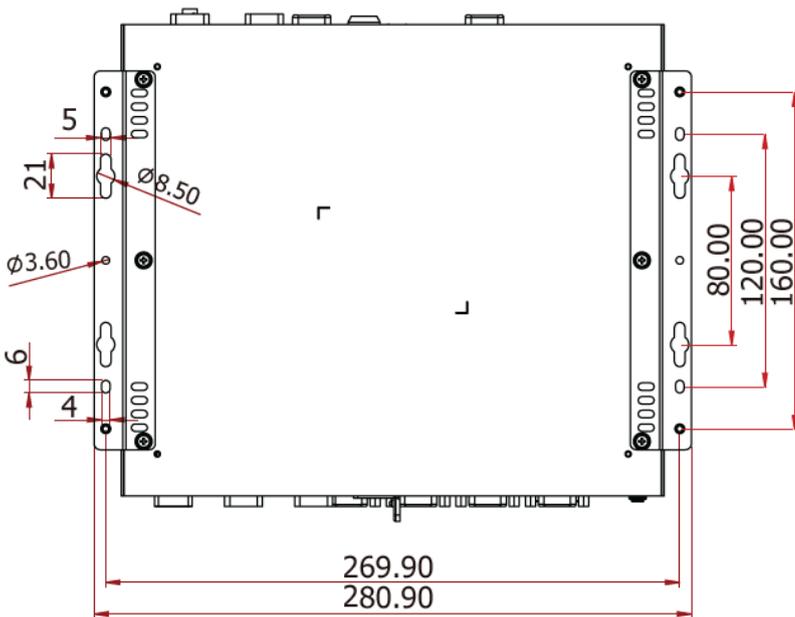
Insert the expansion card into a PCI or PCIe slot on the riser card and secure the bracket in place.



## Wall Mount

The wall mount kit containing two mounting brackets can be attached to the bottom of the system for mounting onto desired locations, such as walls, stands, or shelves. Locate the mounting holes on the bottom of the system as shown in the photo. Screw on the two brackets onto the system with six screws as illustrated below.





DFI reserves the right to change the specifications at any time prior to the product's release. This QR may be based on the product's revision. For more documentation and drivers, please visit the download page at [www.dfi.com/downloadcenter](http://www.dfi.com/downloadcenter), or via the QR codes to the right.

