



# DFI EC300-CS Edge AI Embedded System Installation Guide

[Home](#) » [DFI](#) » DFI EC300-CS Edge AI Embedded System Installation Guide 

## Contents

- [1 DFI EC300-CS Edge AI Embedded System](#)
- [2 Specifications](#)
- [3 Product Usage Instructions](#)
- [4 Product Overview](#)
- [5 Removing the Chassis Cover](#)
- [6 Installing an Antenna](#)
- [7 Mounting Options](#)
- [8 Frequently Asked Questions](#)
- [9 Documents / Resources](#)
  - [9.1 References](#)



**DFI EC300-CS Edge AI Embedded System**



## Specifications

- Model: EC300-CS
- Type: Edge AI Embedded System
- Input Voltage: DC-in 9~36V
- Interfaces:
  - COM1, COM2
  - DIO
  - LAN1, LAN2
  - USB3.0, USB2.0
  - VGA, HDMI, DP++
  - PoE1, PoE2, PoE3, PoE4
  - Line-out, Mic-in

## Product Usage Instructions

### Removing the Chassis Cover:

1. Make sure the system and peripheral devices are powered off.
2. Disconnect all power cords and cables.
3. Turn over the machine to expose the bottom side.
4. Remove eight screws from each corner.
5. Remove the bottom case to access internal components.

### Installing an Antenna:

1. Ensure the system and peripheral devices are powered down.
2. Disconnect all power cords and cables.
3. Locate antenna holes on each side of the system.

4. Remove rubber plugs covering the antenna holes.
5. Connect the internal cable to the board's antenna connector.
6. Screw the antenna connector through the hole using washers and nuts.

#### Inserting a 2.5 HDD/SDD:

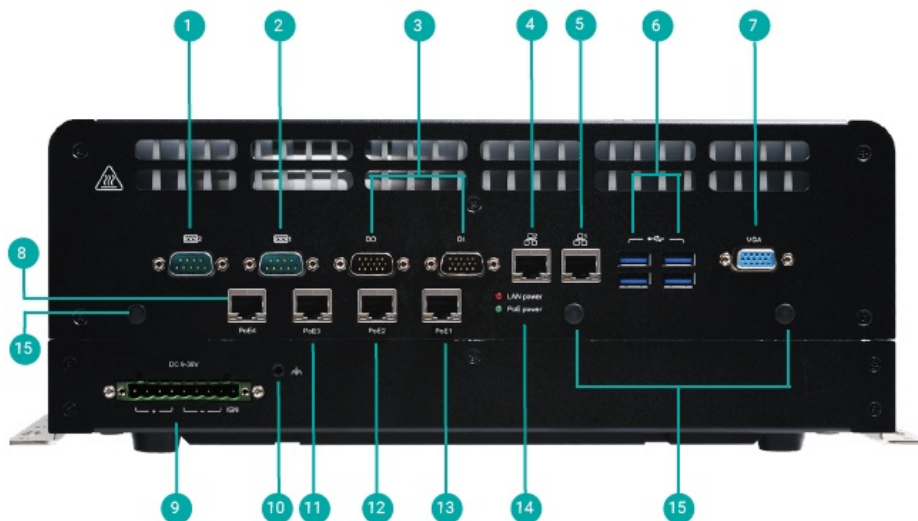
1. Turn off the system before proceeding.
2. Locate the drive bay on the front of the system.
3. Unlock the door by pulling the silver latch.
4. Slide the drive into the slot until fully seated.
5. Close the drive latch to secure the drive in place.

#### Installing the M.2 Module:

1. Ensure all devices are powered down.
2. Locate the M.2 socket on the system board.
3. Carefully insert the M.2 module into the socket.

## Product Overview

### Front View

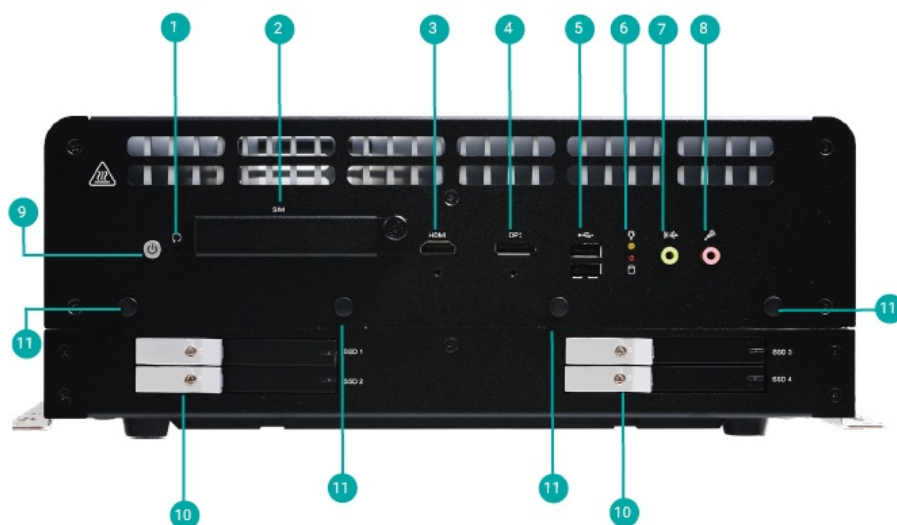


1. COM2
2. COM1
3. DIO
4. LAN2
5. LAN1
6. USB3.0
7. VGA
8. PoE4
9. DC-in 9~36V

10. Grounding
11. PoE3
12. PoE2
13. PoE1
14. LAN Power (Red) PoE Power (Green)
15. Antenna Hole

## Rear View

1. Reset Button
2. SIM Sockets
3. HDMI
4. DP++
5. USB2.0
6. Status LED (Orange) HDD LED (Red)
7. Line-out
8. Mic-in
9. Power Button
10. 2.5" SSD Storage Driver Bay
11. Antenna Hole



## 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:** Turn over the machine to let the bottom side become the top. Remove eight screws circled by red in each corner.



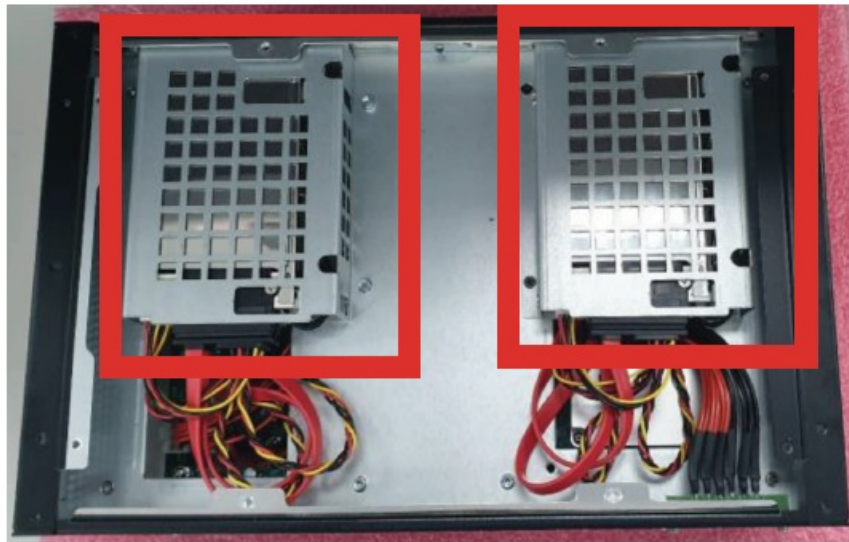
**Step 2:** Remove the bottom case



**Step 3:** The SSD part appears.



**Step 4:** There are two 2.5" HDD slots for harddisk/SSD installation.



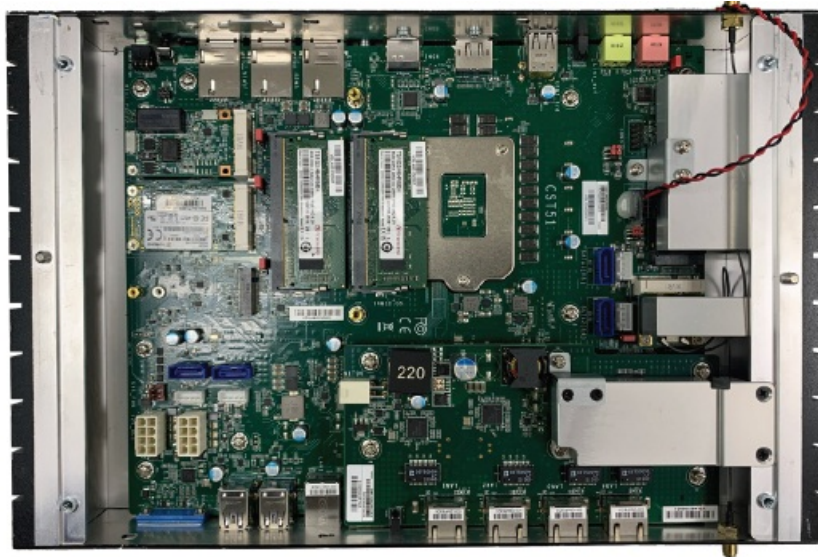
**Step 5:** If you want to change/remove/install other components, please remove the first layer first. Remove the 4 screws in each corner circled by red.



**Step 6:** Tilt up to remove the first layer carefully and slowly. Please unplug these cables first.



**Step 7:** The main body appears.



## Installing an Antenna

Before installing the antenna, please make sure that the following safety cautions are wellattended.

1. Make sure the PC and all other peripheral devices connected to it has been powered down.
2. Disconnect all power cords and cables.

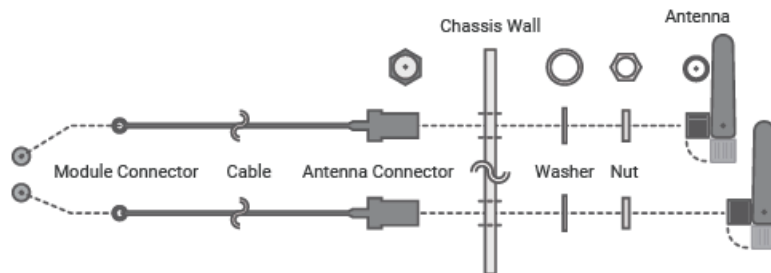
### Step 1:

There are antenna holes reserved on every side of the system and covered by rubber plugs. Please remove the plug prior to installing an antenna.



## 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 2.5" 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.



### Step 2:

Pull the silver 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:

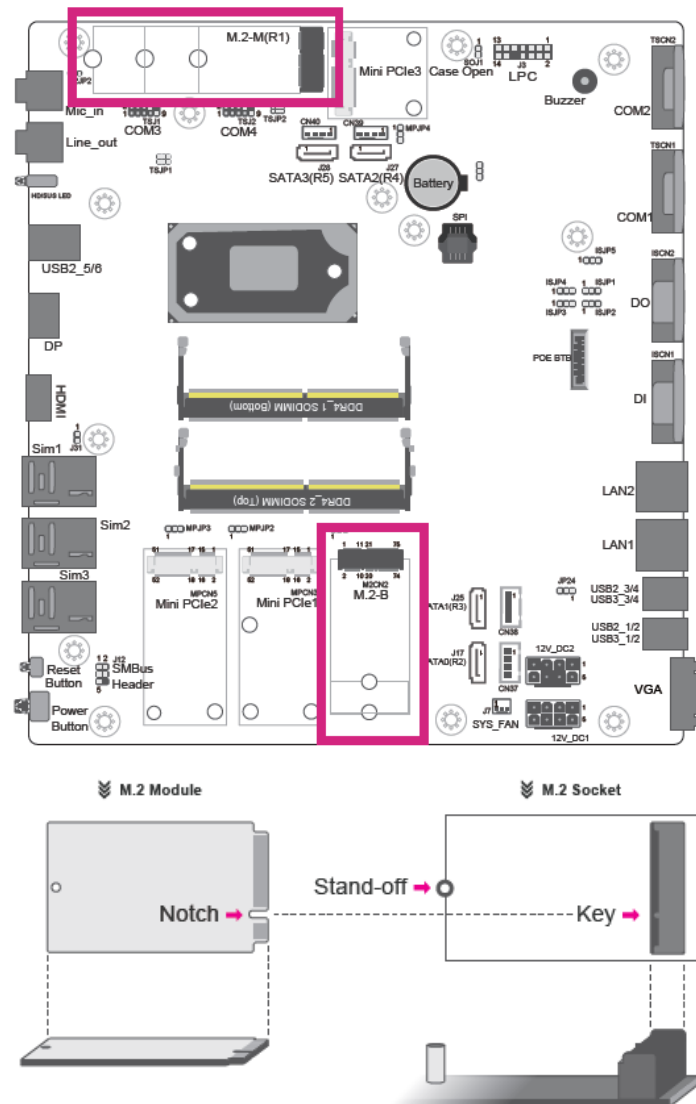
Excessive force may damage its mechanical parts.

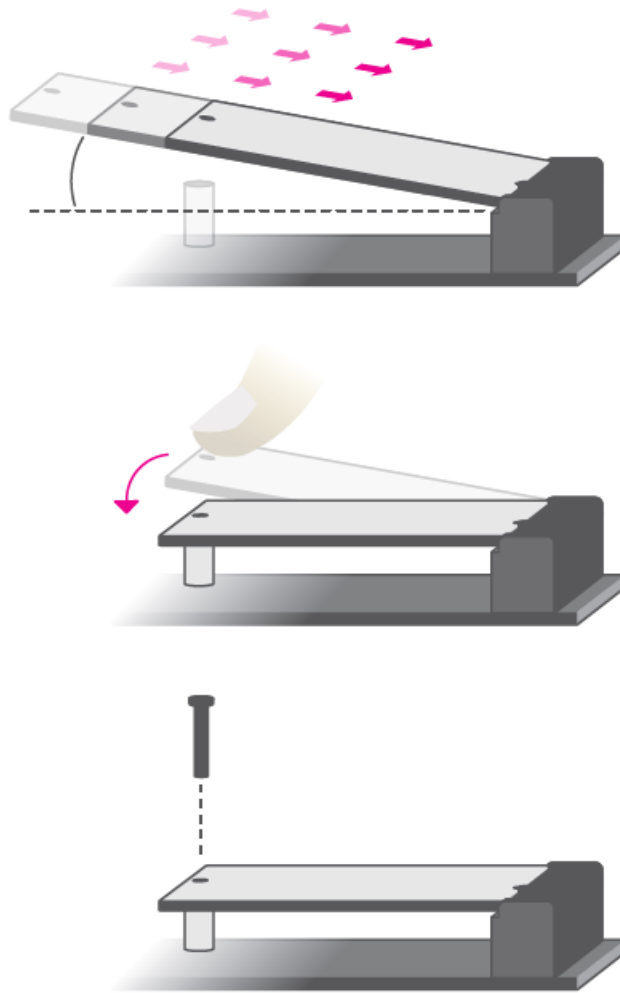
If the HDD/SSD is inserted backward into the slot, forcing the device may damage the slot.

### Installing the M.2 Module

Before installing the M.2 module into the M.2 socket, please make sure that the following safety cautions are well-attended.

1. Make sure the PC and all other peripheral devices connected to it has been powered down.
2. Disconnect all power cords and cables.
3. Locate the M.2 socket on the system board
4. Make sure the notch on card is aligned to the key on the socket.
5. Make sure the standoff screw is removed from the standoff.

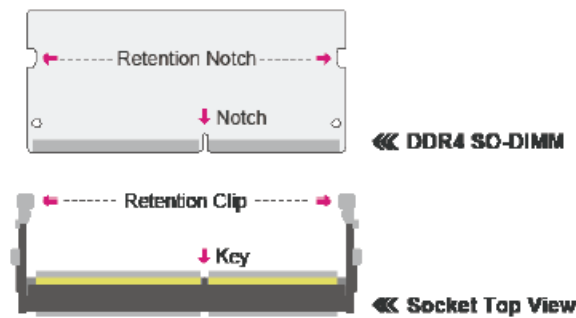
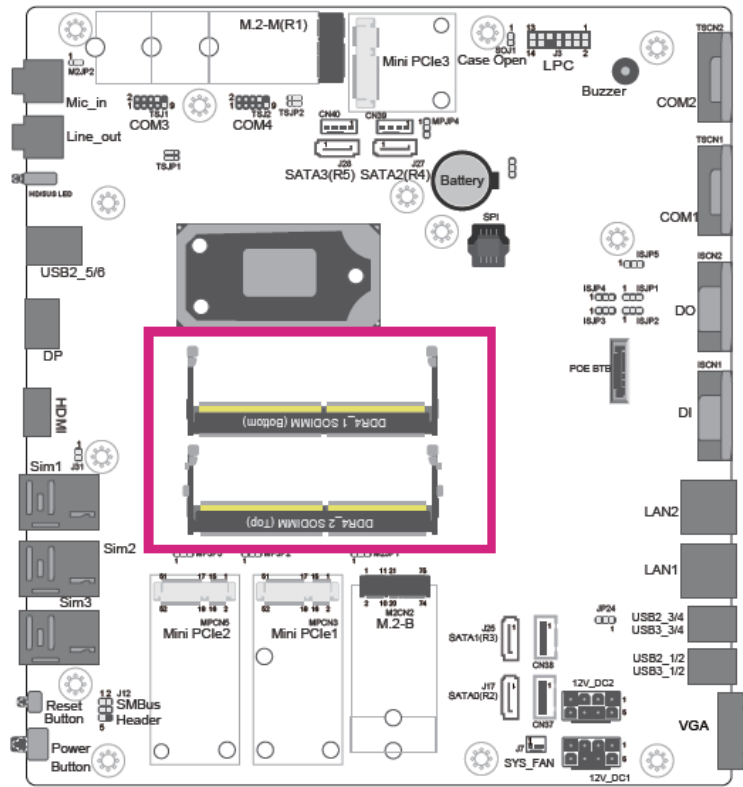




### Installing the SO-DIMM Module

Before installing the memory module, please make sure that the following safety cautions are well-attended.

1. Make sure the PC and all other peripheral devices connected to it has been powered down.
2. Disconnect all power cords and cables.
3. Locate the SO-DIMM socket on the system board
4. Make sure the notch on memory card is aligned to the key on the socket.



### 1. Step 1:

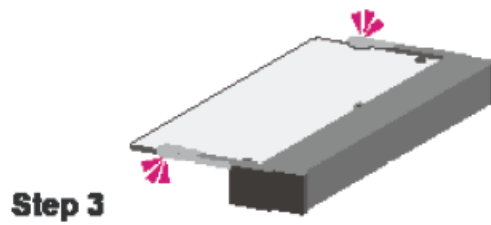
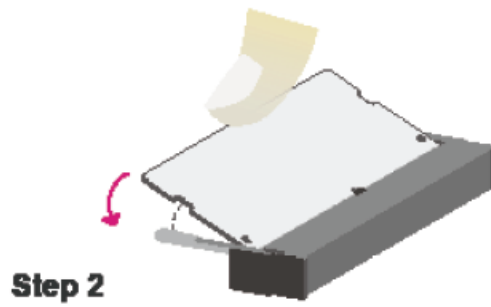
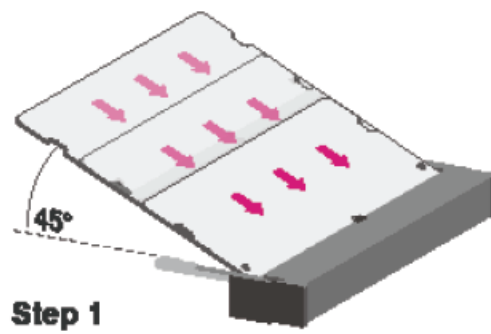
Insert the memory card into the slot while making sure 1) the notch and the key are aligned, and 2) the non-connector end rises approximately 45 degrees horizontally. Press the card firmly into the socket while applying and maintaining even pressure on both ends.

### 2. Step 2:

Press the end of the card far from the socket down while making sure the retention notch and the clip align as indicated by the dotted line in the illustration. If the retention notch and the clip do not align, please remove the card and re-insert it. Press the card all the way down.

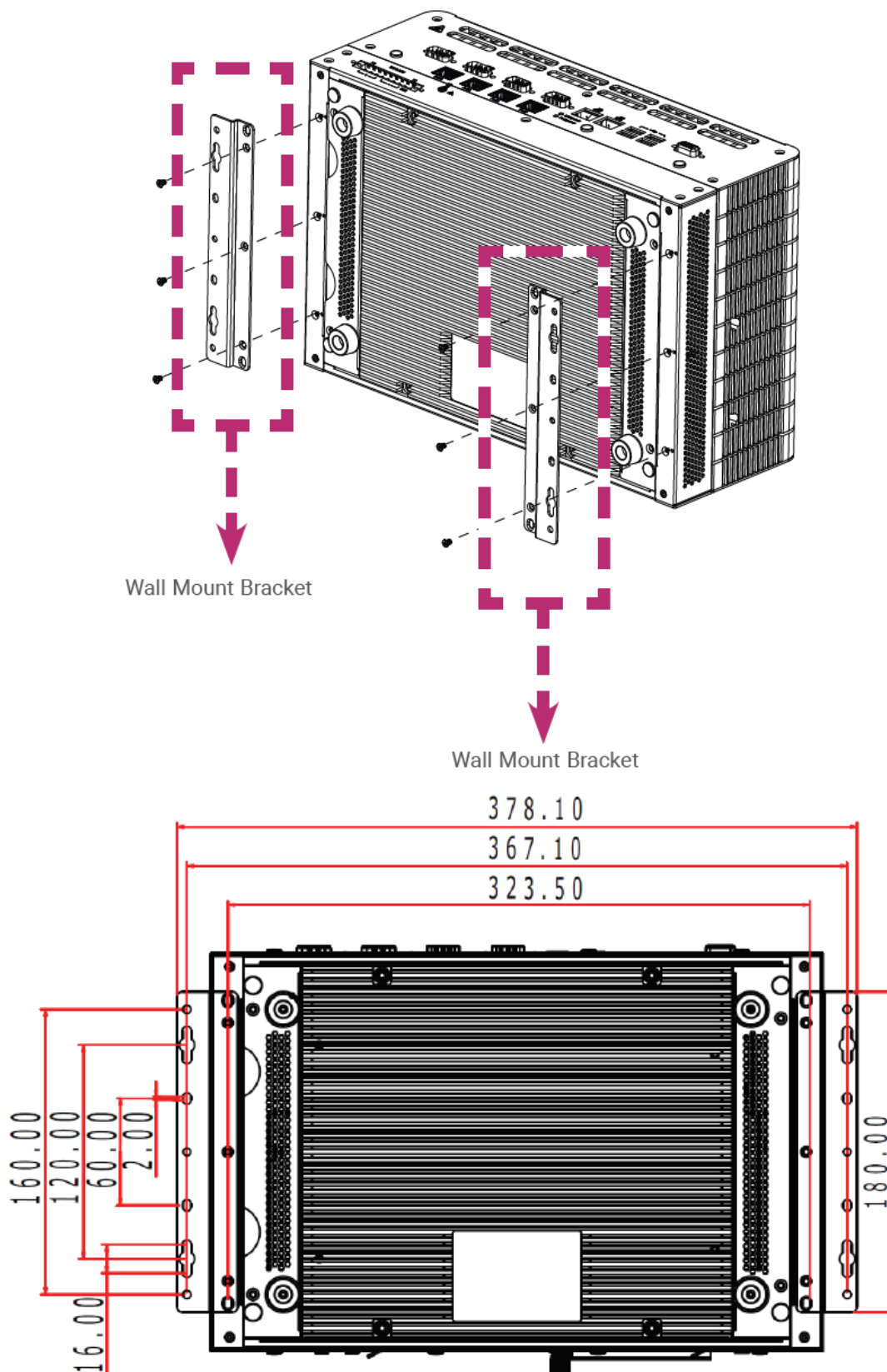
### 3. Step 3:

The clips snap automatically and abruptly to the retention notches of the card sounding a distinctive click, and lock the card in place. Inspect that the clip sits in the notch. If not, please pull the clips outward, release and remove the card, and mount it again.



## Mounting Options

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.



## Frequently Asked Questions

- **Q: How do I know if my system supports PoE?**

A: The LAN Power (Red) and PoE Power (Green) indicators on LAN ports signify PoE support. If these indicators are present, your system supports PoE.


- **Q: Can I install multiple HDDs/SSDs in this system?**

A: Yes, there are two 2.5 HDD slots for hard disk/SSD installation in this system. Follow the provided instructions to insert additional drives.

- **Q: Is it necessary to remove all power cords before opening the chassis cover?**

A: Yes, it is crucial to disconnect all power sources to ensure safety while working on internal components. Always power off and unplug the system before proceeding with any maintenance tasks.

## Documents / Resources

 <p>Quick Installation Guide EC300-CS Edge AI Embedded System www.dfi.com</p> <p>Package Contents</p> <table border="1"><tr><td>1</td><td>EC300-CS</td></tr><tr><td>1</td><td>Quick Installation Guide</td></tr><tr><td>1</td><td>Power Cord</td></tr></table> <p>DFI EC300-CS</p>	1	EC300-CS	1	Quick Installation Guide	1	Power Cord	<p><a href="#">DFI EC300-CS Edge AI Embedded System</a> [pdf] Installation Guide EC300-CS Edge AI Embedded System, EC300-CS, Edge AI Embedded System, AI Embedded System, Embedded System, System</p>
1	EC300-CS						
1	Quick Installation Guide						
1	Power Cord						

## References

-  [DFI | Embedded Motherboard | Industrial Computer](#)
- [User Manual](#)

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