



## KS070-BT Installation Guide

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### Package Contents

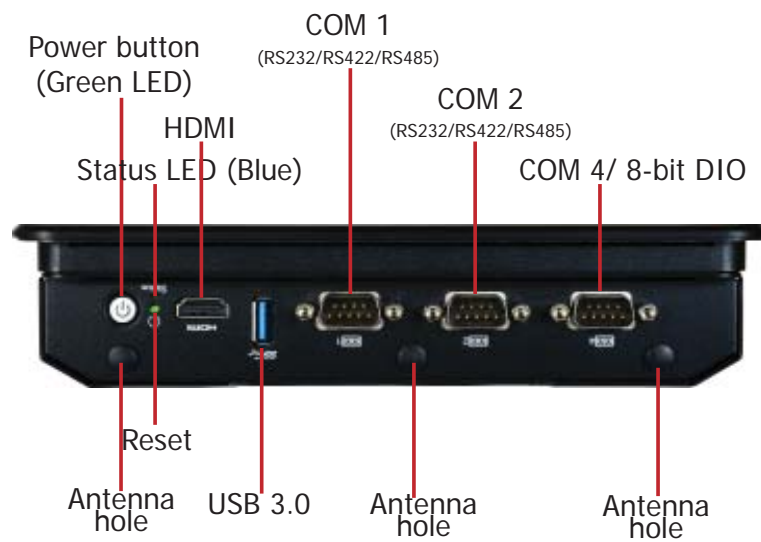
• One 7" Touch Panel PC
• One sheet of Poron foam
• One HDD drive bay kit
• 1 DVD disk includes:
- Manual

DFI reserves the right to change the specifications at any time prior to the product's release. For the latest revision and more details of the installation procedure, please refer to the user's manual on the website.

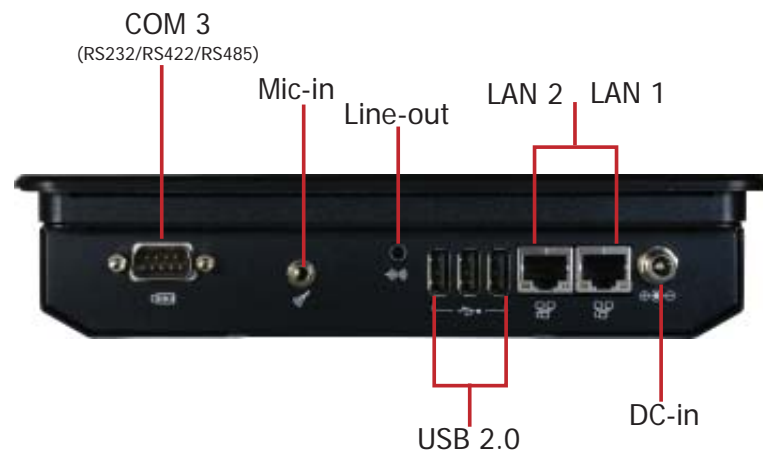
[www.dfi.com](http://www.dfi.com)

## Panel

Top View



Bottom View





## Removing the Chassis Cover

1. Make sure the system and all other peripheral devices connected to it have been powered-off.
2. Disconnect all power cords and cables.
3. The 8 mounting screws on the rear side of the system are used to secure the cover to the chassis. Remove these screws and put them in a safe place for later use.

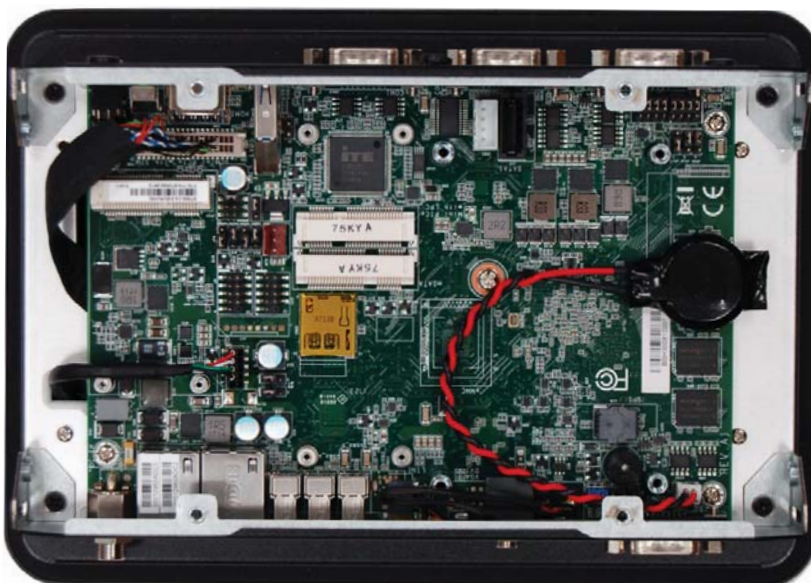


Mounting screw



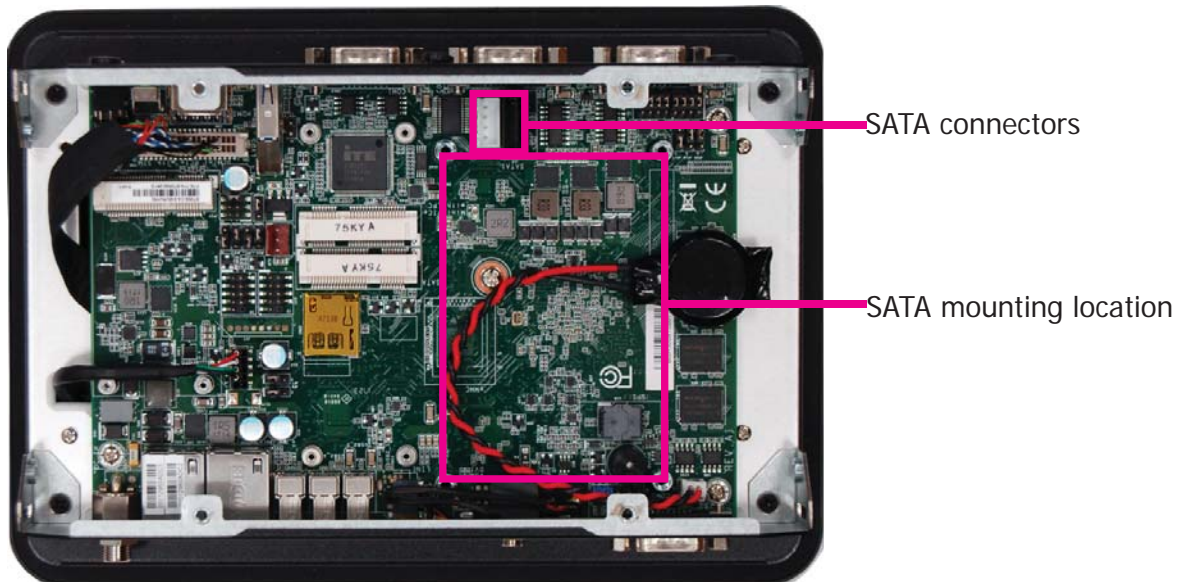
Mounting screw

4. Lift the cover up to open the system.
5. The Mini PCIe and the micro SD slots are readily accessible after removing the chassis cover.

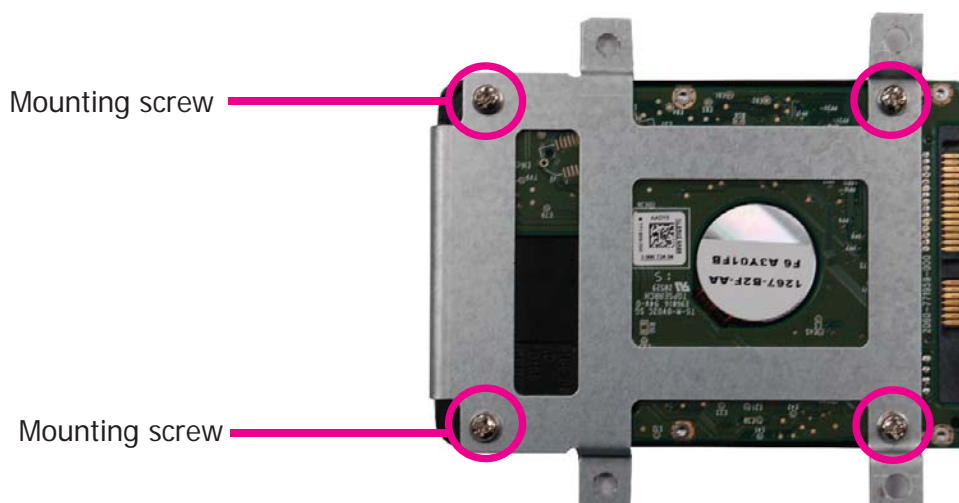


## Installing a SATA Drive

1. The SATA data and power connectors are on the system board.

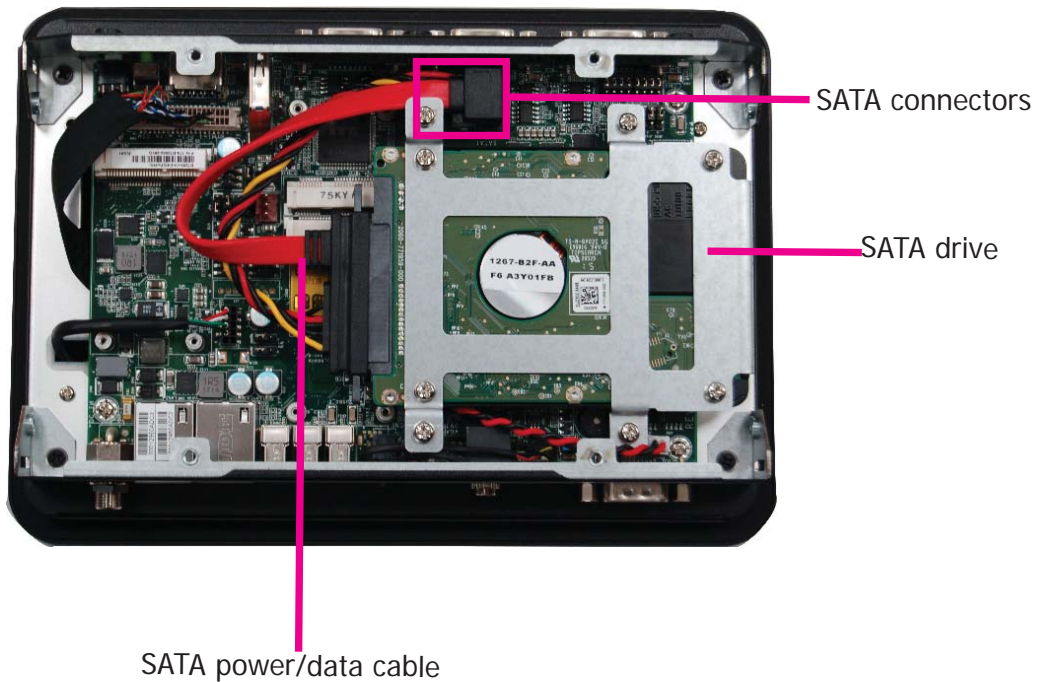


2. Align the mounting holes of the SATA HDD with the mounting holes on the HDD drive bay and use the provided mounting screws to attach the SATA HDD to the drive bay.

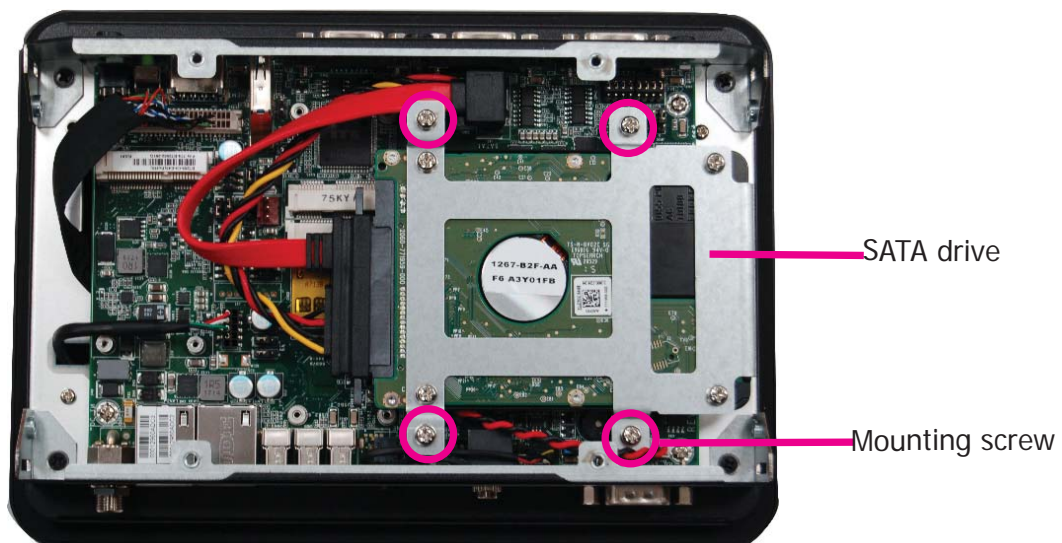




3. Connect one end of the SATA cable to the SATA power and data connectors on the SATA drive and the other end of the SATA cable to the SATA power and data connectors on the system board.



4. Align the mounting holes of the HDD drive bay with the mounting holes on the system and use the provided mounting screws to secure the drive bay in place.





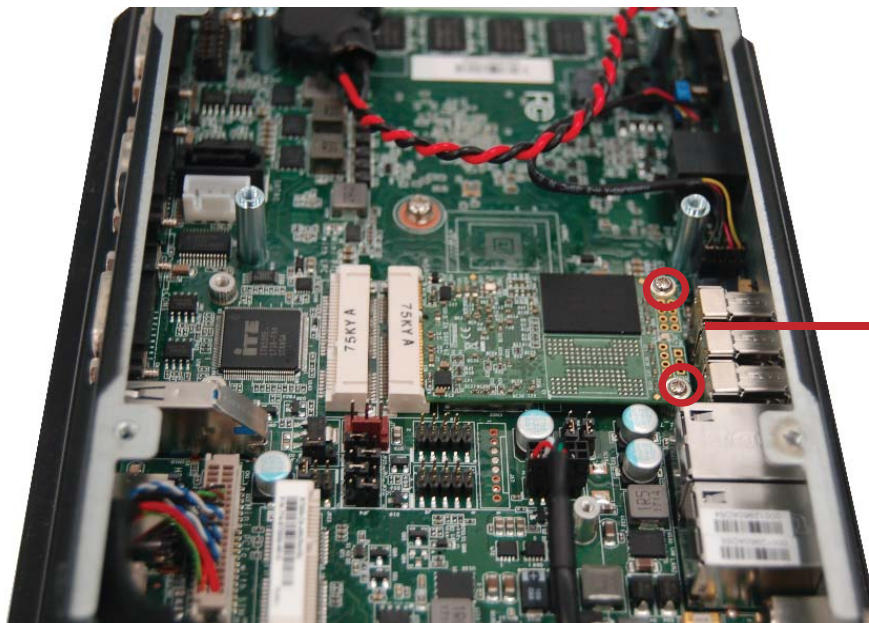
## Installing a Mini PCIe Card

The system board is equipped with 3 Mini PCIe slots: two full-size and one half-size slots. Here we will demonstrate the installation of a full-size Mini PCIe card (mSATA interface) for capacity expansion.

1. Grasp the Mini PCIe card by its edges and align the notch in the connector of the PCIe card with the notch in the connector on the system board.



2. Push the Mini PCIe card down and use the provided mounting screws to secure the card on the system board.



Mounting screw

### Note:

The system also has one additional full-size Mini PCIe and one half-size Mini PCIe slot that uses PCIe and LPC interface respectively.



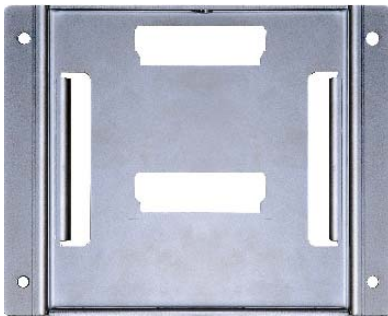
## Mounting Options



### Wall mount

The wall mount kit includes the following:

- 2 wall mount brackets
- Bracket screws

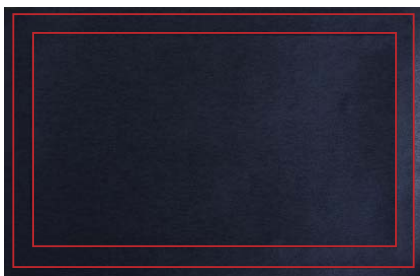


Wall mount bracket 1

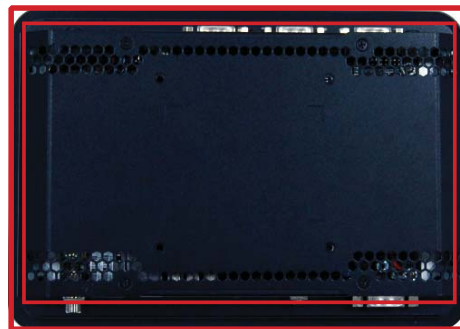


Wall mount bracket 2

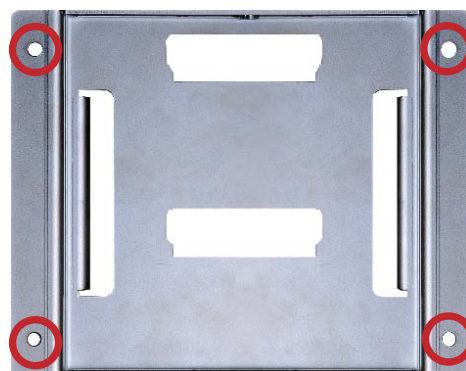
1. Before starting any installation procedures, attach the poron foam to the Panel PC.



Poron foam



2. Select a place on the wall where you will mount the Panel PC.
3. Use the provided mounting screws to attach "wall mount bracket 1" to the wall.

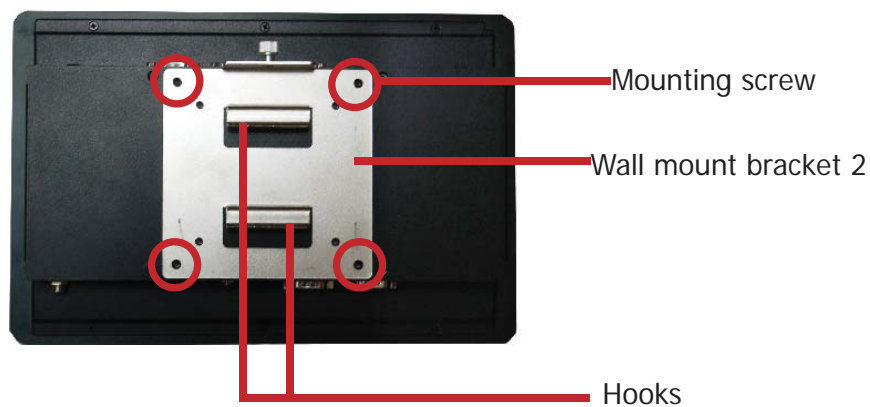


Mounting screw

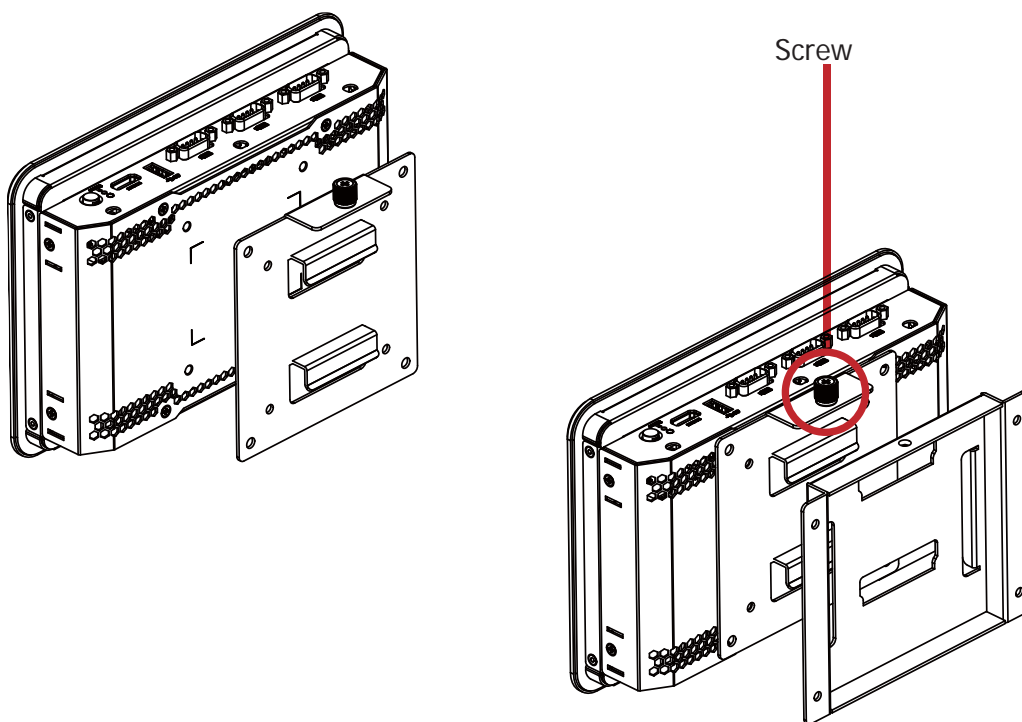
Wall mount bracket 1



4. Attach the other bracket (wall mount bracket 2) to the rear of the Panel PC.



5. Slide the Panel PC to "wall mount bracket 1" to attach the two brackets with the hooks. Then tighten the screw to secure the assembly in place.





## Panel mount

The panel mounting kit includes the following:

- 6 mounting clamps



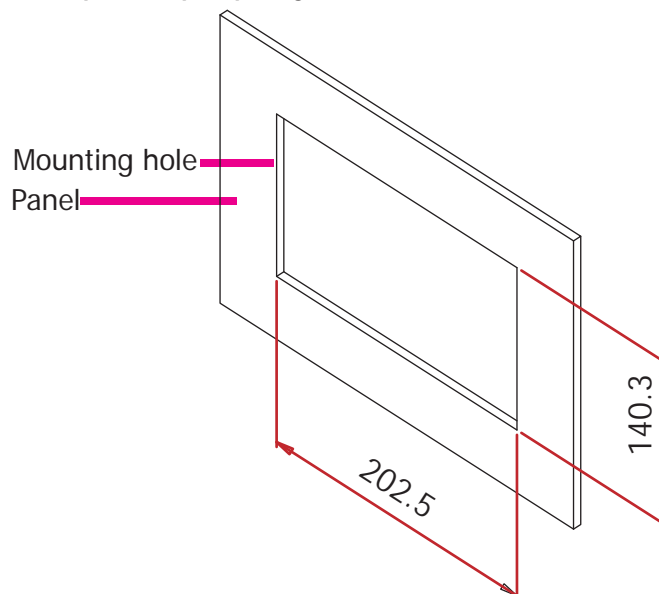
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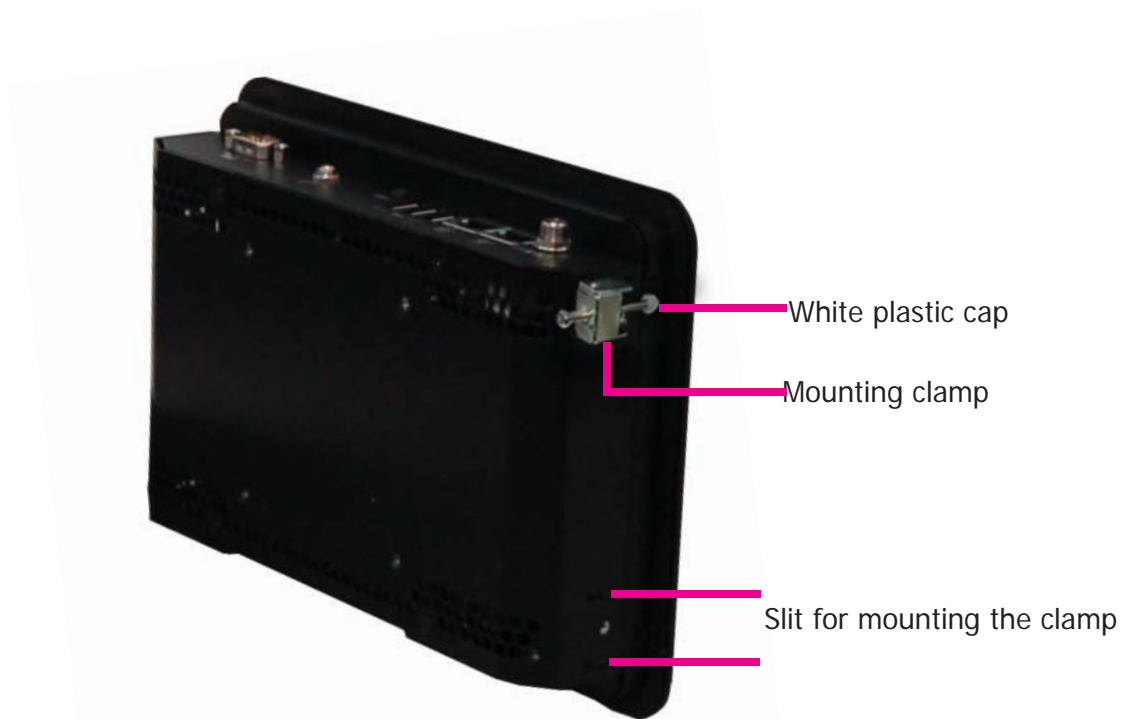
Poron foam



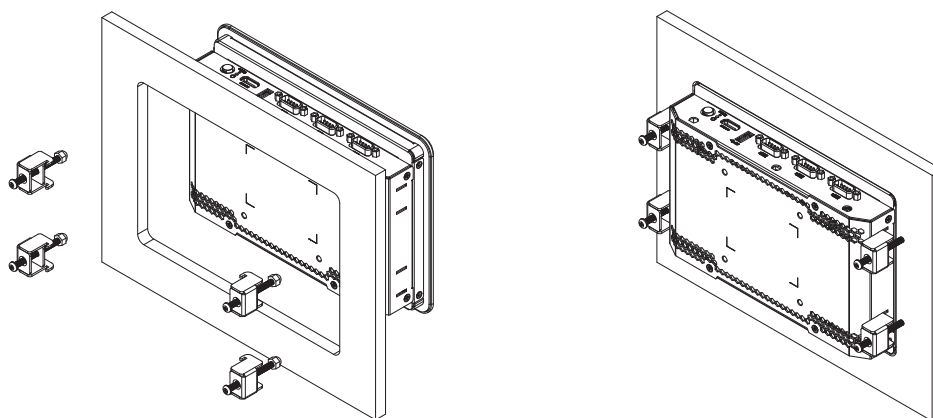
2. Select a place on the panel (or wall) where you will mount the Panel PC.
3. Cut out a shape on the panel that corresponds to the Panel PC's rear dimensions (202.5mm x 140.3mm) and ensure that the Panel PC can be fitted into the panel properly.



4. Insert the Panel PC from the outside surface of the panel into the mounting hole until it is properly fitted against the panel.
5. Position the mounting clamps along the rear edges of the Panel PC and insert them into the slits around the Panel PC.



6. The first and second clamps must be positioned and secured diagonally prior to mounting the rest of the clamps. Tighten the clamp's screw using an electric screwdriver by pressing the white plastic cap onto the back of the panel. The illustration below shows that all clamps are properly mounted.

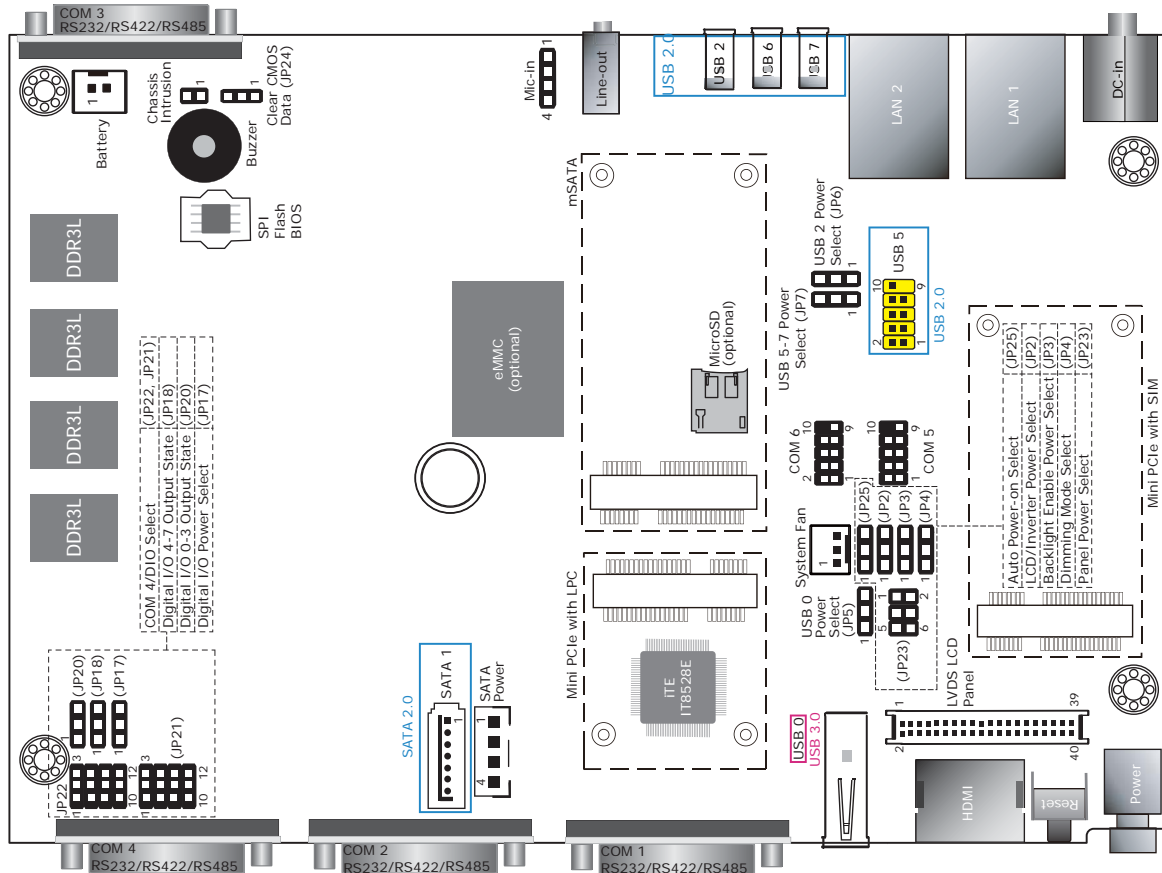


**Note:**

The maximum thickness of your panel's mounting wall should be 10 mm for secure panel mount.



## Board Layout and Jumper Settings



USB Power Select: 0 (JP5), 1-2 (JP6), 5-7 (JP7)	
+5V_standby (default)	1-2 On
+5V	2-3 On

Clear CMOS Data	JP24
Normal (default)	1-2 On
Clear CMOS Data	2-3 On

Panel Power Select	JP23
+12V	1-2 On
+5V	3-4 On
+3.3V (default)	5-6 On

Backlight Enable Power Select	JP3
+3.3V (default)	1-2 On
+5V	2-3 On

Dimming Mode Select	JP4
Voltage Mode	1-2 On
PWM Mode (default)	2-3 On

LCD/Inverter Power Select	JP2
+12V (default)	1-2 On
+5V	2-3 On

Auto Power-on Select	JP25
Power-on via power button (default)	1-2 On
Power-on via AC power	2-3 On

Digital I/O Output State	JP18 (DIO 4-7) JP20 (DIO 0-3)
GND (default)	1-2 On
+5V or +5V_standby	2-3 On

Digital I/O Power Select	JP17
+5V_standby	1-2 On
+5V (default)	2-3 On

COM 4/DIO Select	JP21, JP22
COM 4 (default)	1-2, 4-5 7-8, 10-11 On
DIO	2-3, 5-6 8-9, 11-12 On

### Note:

You cannot use COM 4 and DIO at the same time. Please adjust JP21 and JP22 together.