

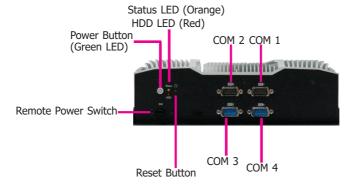
Package Contents

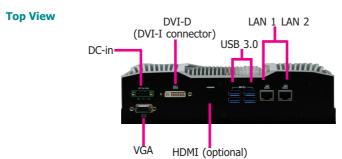
- One 15", 18.5", 19", or 21.5" Modular Touch Panel PC
- 3-pin Terminal Blcok Connector
- SATA and Mini PCIe Installation Screws

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.

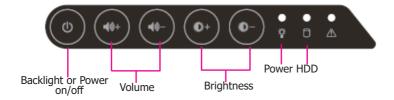


Bottom View





Front OSD Functions (only for models with front OSD)



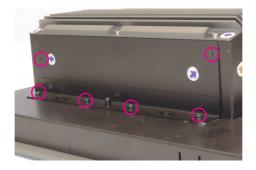
Notes on OSD Settings:

The front OSD is capable of controlling the system in the following ways in addition to its explicit functions.

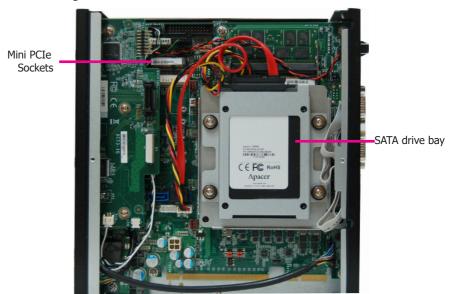
- 1. System Power On/Off: Press the Backlight on/off button for 3 seconds.
- 2. Light Sensor On/Off: Press the Brightness up arrow for 3 seconds.
- 3. OSD Lock/Unlock: Press the Brightness down arrow for 3 seconds.
- 4. The Alarm LED has no funtion for the KSM-SD Series.



- 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. Remove mounting screws at each side of the system box.



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





Installing a SATA Drive

The system can accommodate one SATA drive. Please use the following procedure to install a SATA drive in the system.

1. Before installing the SATA drive, connect the SATA data/power cable to the SATA data connector of the SATA drive. Then install the SATA drive onto the HDD bracket with the provided mounting screws.





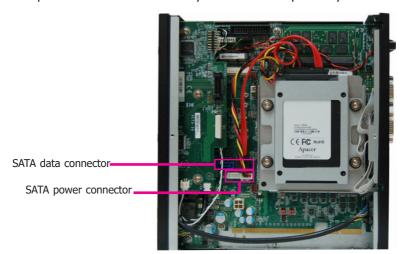
SATA data and power cable

2. Place the SATA drive installed with the HDD bracket in the system. Align the mounting holes on the HDD bracket with the mounting holes on the drive bay and use the provided mounting screws to secure the drive in place.





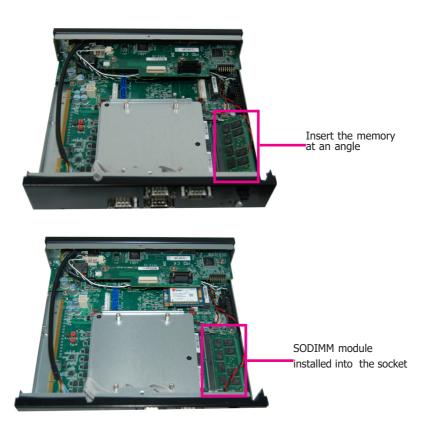
3. Connect the other end of the SATA data/power cable to the SATA data and power connectors on the system board respectively.





Installing a SODIMM

The system supports two DDR4 SODIMM socket. To install a memory module, grasp the memory module by its edges and align the module's notch with the socket's notch; then insert the memory into the socket at an angle and push it down until you feel a click.





Notes:

- The system supports dual-channel configuration. To enable dual-channel, populate both SODIMM sockets.
- 2. If installing only one memory module, please install it on the memory socket labeled DIMM 1 (the one closer to the edge of the board).
- 3. The SODIMM sockets can only accept DDR4 memory modules. Please do not install other types of memory modules.



Installing a Mini PCIe or mSATA Card

The system board is equipped with 2 Mini PCIe slots: one full-size and (PCIe/USB signals) and one half-size slot (USB/mSATA signals). Here we will demonstrate the installation of a full-size Mini PCIe card.

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



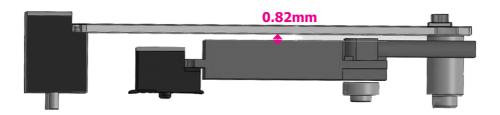
2. Push the Mini PCIe card down and use the provided mounting screw to secure the card on the system board.





Important:

The bottom side of a full-size Mini PCIe module should have a component height restriction of 0.82 mm and will sit flush against the connected half-size Mini PCIe module if such a component is used and the half-size slot is connected with a module.





Assemble the Modular Panel PC

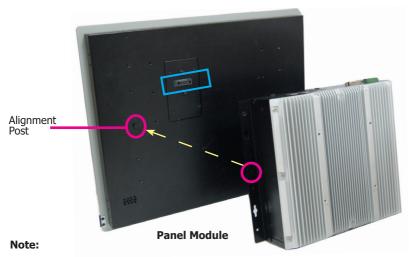
The modular panel PC comprises two parts: a box module and a panel module.

1. At the bottom of the box, there's a male ADP connector.



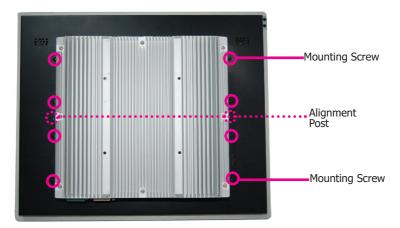
Box Module

2. Hold the box module with its ADP connector (female) in line with the ADP connector (male) of the panel module. Align the box module with the panel module using the alignment posts.



If the orientation of the assembly is not correct, the box module will not seat evenly on top of the panel module, which results in some space in between them and indicates that the ADP connectors are not engaged. When this is the case, please turn the box module the other way around.

3. Seat the box module on top of the panel module with the alignment post effortlessly sliping into the designated holes on the box module. Press to install these two modules and secure the installation with 8 mouting screws.



Box + Panel Module



Mounting Options



VESA mount

The VESA-mount specifications for this device is 100×100 (mm). Please use a compatible VESA mount kit that can sustain the weight and size of this device. The VESA mount kit includes the following:

- 2 VESA mount brackets
- Bracket screws

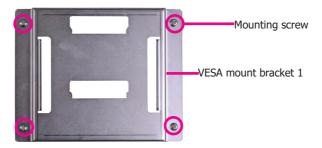


VESA mount bracket 1

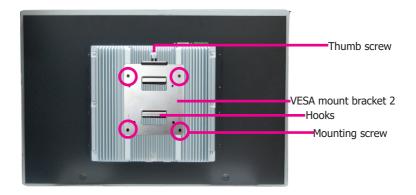


VESA mount bracket 2

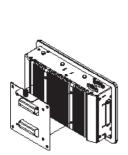
- 1. Select a place on the wall where you will mount the Panel PC.
- Use the provided mounting screws to attach "VESA mount bracket 1" to the wall.

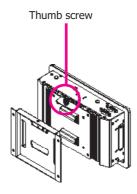


3. The system has designed Attach the other bracket (VESA mount bracket 2) to the rear of the Panel PC.



4. Slide the Panel PC to "wall mount bracket 1" to attach the two brackets with the hooks. Then tighten the thumb screw to secure the assembly in place. Note that the following diagram is for illustration only and may not resemble the actual product.







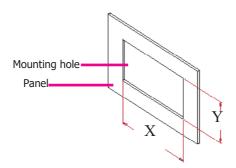
Panel mount

The panel mounting kit includes the following:

10 mounting clamps



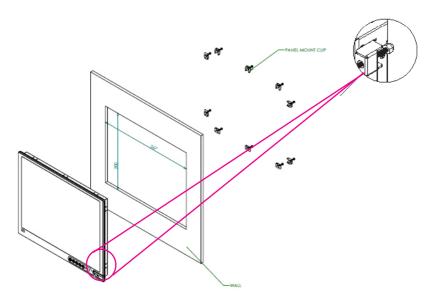
- 1. Select a place on the panel (or wall) where you will mount the Panel PC.
- 2. Cut out a shape on the panel that corresponds to the Panel PC's rear dimensions (15": 367mm x 300mm; 18.5": 454mm x 296mm; 19": 447mm x 380mm; 21.5": 526.2mm x 342.6mm) and ensure that the Panel PC can be fitted into the panel properly.



- 3. Insert the Panel PC from the outside surface of the panel into the mounting hole until it is properly fitted against the panel.
- 4. Position the mounting clamps along the rear edges of the Panel PC and insert them into the slits around the Panel PC. Note that the following diagram is for illustration only and may not resemble the actual product.



5. 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 flat cap onto the back of the panel.

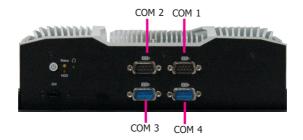


Note:

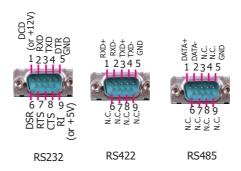
The maximum thickness of your panel's mounting wall should be $10\ \mathrm{mm}$ for secure panel mount.

Communication Port Pin Assignments

The system is equipped with 4 COM ports that enable serial communication. The COM 1 and COM 2 ports can be switched between typical RS232 or RS232 with power on its Pin NO.1 (12V) and Pin No.9 (5V).

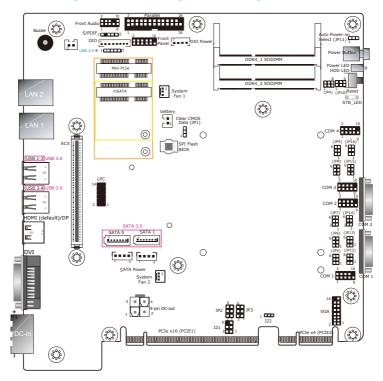


COM 1/COM 2 (RS232 with power/422/485) COM 3~COM4 (RS232/422/485)





Board Layout and Jumper Settings



| Clear CMOS Data | | JP1 | |
|--|--------------------------|-------------|--|
| Normal (default) | | 1-2 On | |
| Clear CMOS Data | | 2-3 On | |
| RS232/Power Select: COM 1 (JP3), COM 2 (JP2) | | | |
| RS232 (default) | 1-3 (RI), 2-4 (DCD) On | | |
| RS232 with power | 3-5 (+5V), 4-6 (+12V) On | | |
| RS232/422/485 Select: COM 1 (JP6), COM 2 (JP13) | | | |
| RS232 (default) | | 1-2 On | |
| RS422 Full Duplex | | 3-4 On | |
| RS485 | | 5-6 On | |
| RS232/422/485 Select: COM 1 (JP5/JP12) COM 2 (JP7/JP14) | | | |
| RS232 (default) | | 1-3, 2-4 On | |
| RS422 Full Duplex/RS485 | | 3-5, 4-6 On | |

| Auto Power-on Select | JP11 | |
|---|-------------|--|
| Power-on via Power Button (default) | 1-2 On | |
| Power-on via AC Power | 2-3 On | |
| RS232/422/485 Select: COM 3 (JP9), COM 4 (JP4) | | |
| RS232 (default) | 1-2 On | |
| RS422 Full Duplex | 3-4 On | |
| RS485 | 5-6 On | |
| RS232/422/485 Select: COM 3 (JP8/JP15) COM 4 (JP10/JP16) | | |
| RS232 (default) | 1-3, 2-4 On | |
| RS422 Full Duplex/RS485 | 3-5, 4-6 On | |
| | | |

Notes

- When COM1 RS232/422/485 is selected, JP5 and JP12 must be set in accordance to JP6.
- 2. When COM2 RS232/422/485 is selected, JP7 and JP14 must be set in accordance to JP13.
- 3. When COM3 RS232/422/485 is selected, JP8 and JP15 must be set in accordance to JP9.
- When COM4 RS232/422/485 is selected, JP10 and JP16 must be set in accordance to JP4.

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