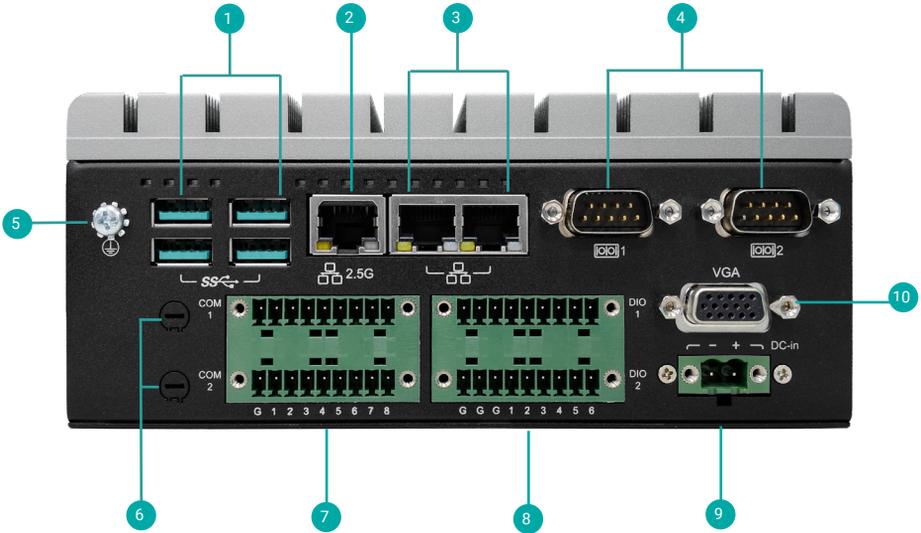




# Product Overview

## Front View



1 USB 3.0

2 LAN (2.5G)

3 LAN

4 COM 1 & 2

5 Grounding

6 Antenna Holes

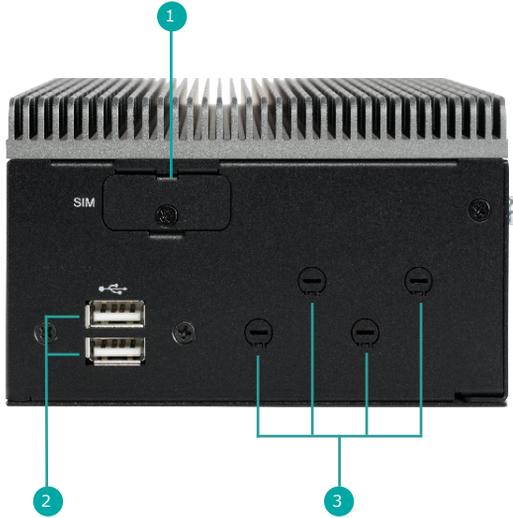
7 Isolated COM1 & COM2 (support 2KV)

8 Isolated 6bit DI & 6bit DO (support 2KV)

9 DC-In (9~36V)

10 VGA

## Side I/O view



- 1 SIM Slot
- 2 USB 2.0
- 3 Antenna Holes

## 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:

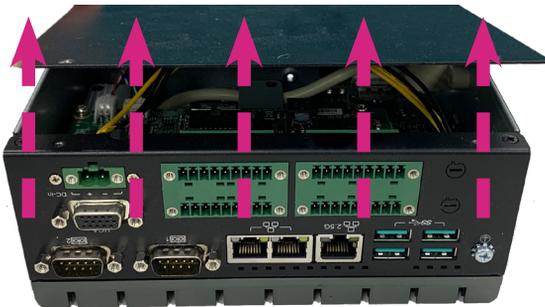
The 5 screws on the bottom of the system are used to secure the cover to the chassis. Remove the screws and put them in a safe place for later use.



### Step 2:

Lift the cover to open the system.

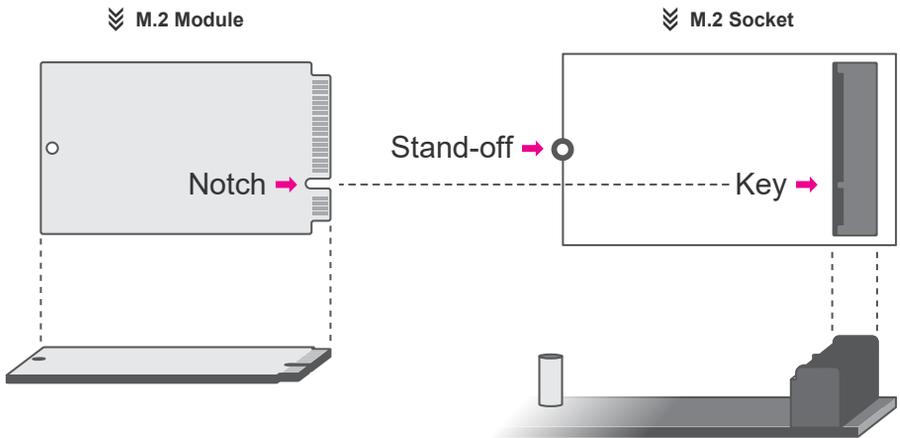
The board can be easily accessed after the chassis cover is removed.



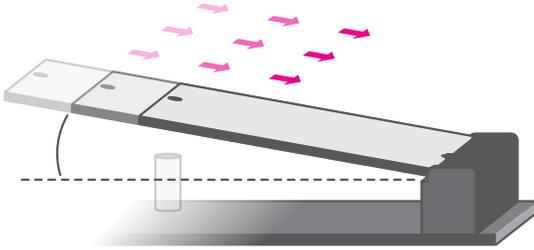
## Installing an M.2 Card

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.

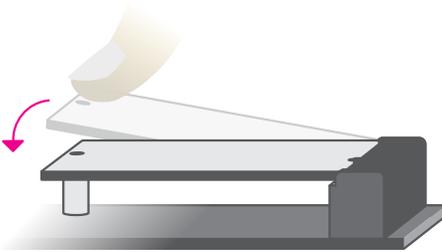


Please follow the steps below to install the card into the socket.



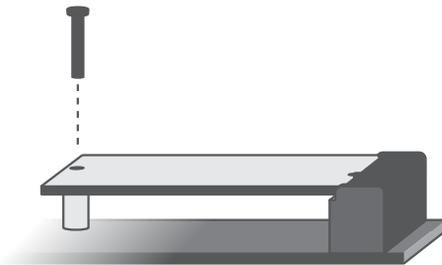
**Step 1:**

Insert the card into the socket at an angle while making sure the notch and key are perfectly aligned.



**Step 2:**

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



**Step 3:**

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.

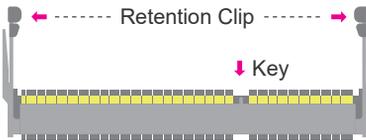
## Installing the SO-DIMM Module

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.

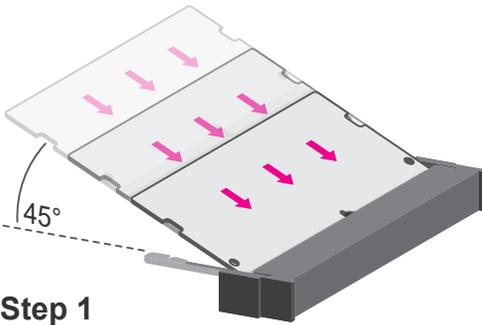


«« DDR4 SO-DIMM



«« Socket Top View

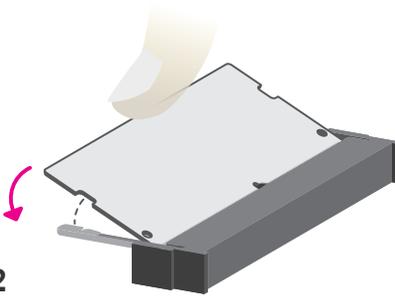
Please follow the steps below to install the memory card into the socket.



**Step 1**

**Step 1:**

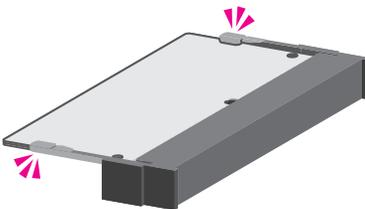
Insert the memory card into the slot while making sure 1) the notch and the key are aligned, and 2) the non-connector end rises approximately 45 degrees horizontally. Press the card firmly into the socket while applying and maintaining even pressure on both ends.



**Step 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.



**Step 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.

## Installing an Antenna

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

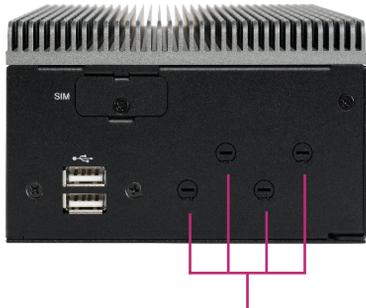
1. Make sure the PC and all other peripheral devices connected to it have been powered down.
2. Disconnect all power cords and cables.

### Step 1:

There are antenna holes reserved on the front and left side of the system and covered by six knockout tabs. Please remove the knockout tabs prior to installing an antenna.



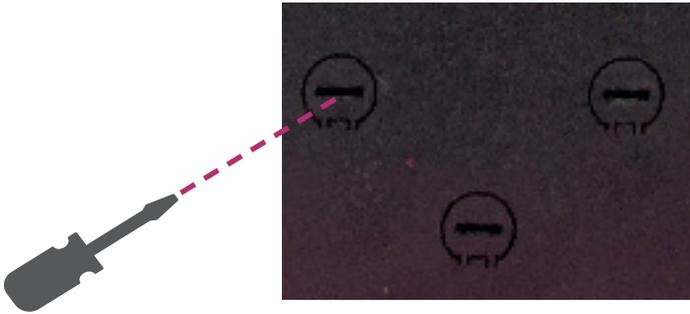
Knockout tabs for antenna holes



Knockout tabs for antenna holes

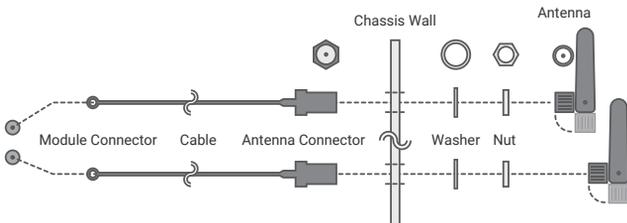
### Step 2:

Use a flathead screwdriver and apply a little extra force to detach a knockout tab until it breaks off from the system. Once the knockout tab is mostly detached, it will pretty quickly snap off, leaving you a nice hole for installing an antenna.



### Step 3:

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.



## Mounting Options

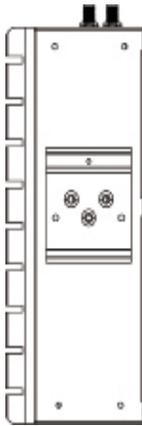
The system features DIN-rail mount chassis that facilitates fast installation of the system to a DIN rail.

The DIN Rail mount kit includes the following:

- Din-rail mount bracket
- 2 screws

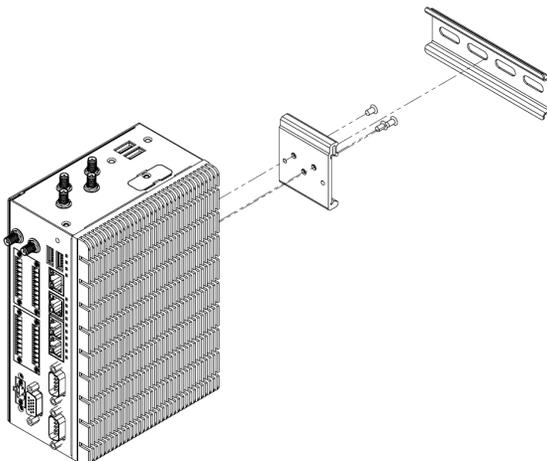
### Step 1:

Use the provided mounting screws to attach the din-rail mount bracket to the rear side of the system.



### Step 2:

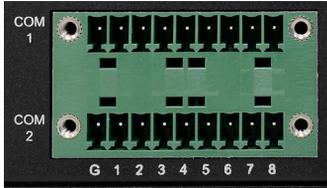
Install the system onto the rail.



## PIN Assignment

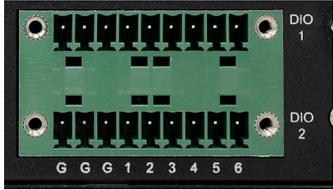
### ► Isolation COM1 & COM2

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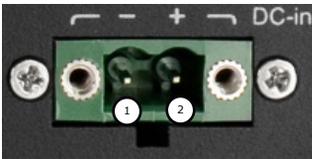
Pin	COM 1	COM 2
<b>G</b>	GND	GND
<b>1</b>	DCD2#	DCD1#
<b>2</b>	SIN2	SIN1
<b>3</b>	SO2	SO1
<b>4</b>	DTR2#	DTR1#
<b>5</b>	DSR2#	DSR1#
<b>6</b>	RTS2#	RTS1#
<b>7</b>	CTS2#	CTS1#
<b>8</b>	RI2#	RI1#

► Isolation DIO1 & DIO2



Pin	DIO 1	DIO 2
<b>G</b>	GND	GND
<b>G</b>	GND	GND
<b>G</b>	GND	GND
<b>1</b>	GP01	GPI1
<b>2</b>	GP02	GPI2
<b>3</b>	GP03	GPI3
<b>4</b>	GP04	GPI4
<b>5</b>	GP05	GPI5
<b>6</b>	GP06	GPI6

► DC-in



Pin	Assignment
<b>1</b>	-
<b>2</b>	+

## ► COM1 & COM2 (Support RS232/422/485)



Pin	COM (RS232)	COM (RS422/Half)	COM (RS422/Full)	COM (RS485)
1	RI	---	---	---
2	CTS	---	---	---
3	RTS	---	---	---
4	DSR	---	---	---
5	GND	GND	GND	GND
6	DTR	---	TX-	---
7	TX	---	TX+	---
8	RX	RX-	RX-	DATA-
9	DCD	RX+	RX+	DATA+



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.

