



Model for EC900-8MM

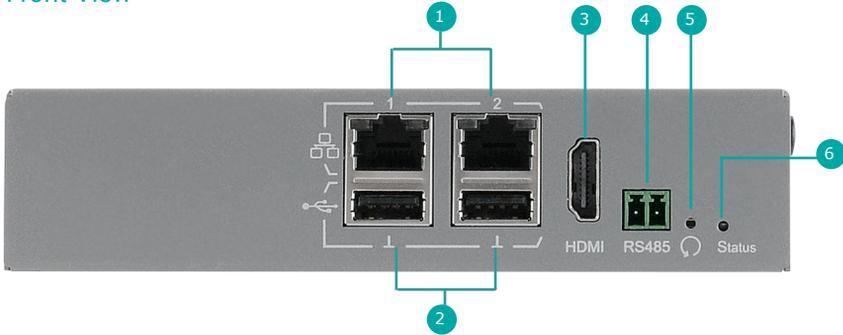
## Package Contents

- |   |
|---|
| • 1 System unit                                 |
| • 1 10-Pole Terminal Block for RS-422/4-bit DIO |
| • 1 2-Pole Terminal Block for RS-485            |
| • 2-Pole Terminal Block for Power Input         |
| • DIN Rail Bracket/Screw Pack                   |
| • Quick Installation Guide                      |

# Product Overview

## EC900-8MM

### Front View



### Left View

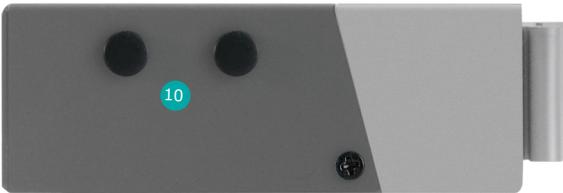


- 1** LAN 1 & LAN 2
- 2** USB 2.0
- 3** HDMI
- 4** COM (RS485)
- 5** Reset Button
- 6** Status LED
- 7** A terminal block:  
RS422 (4-pin)  
Digital IO (4-pin)  
Power (1-pin)  
Ground (1-pin)
- 8** DC IN

## Rear View



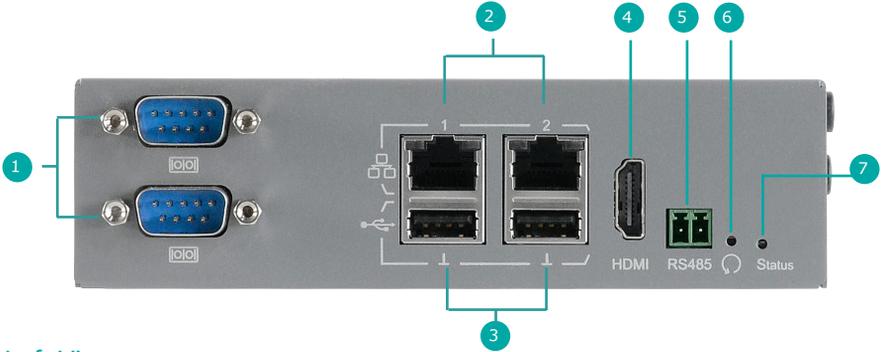
## Right View



- 9 DIN-rail Mount    10 Antenna Hole

# EC910-8MM

## Front View



## Left View

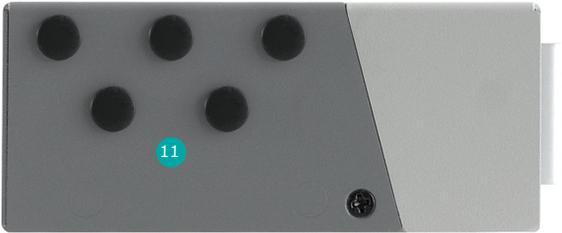


- |              |   |                |
|--------------|---|----------------|
| 1 COM        | 2 LAN 1 & LAN 2   | 3 USB 2.0      |
| 4 HDMI       | 5 COM (RS485)   | 6 Reset Button |
| 7 Status LED | 8 A terminal block:<br>RS422 (4-pin)<br>Digital IO (4-pin)<br>Power (1-pin)<br>Ground (1-pin) | 9 DC IN        |

Rear View



Right View



- 10 DIN-rail Mount
- 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:

The 2 screws on the both sides 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.



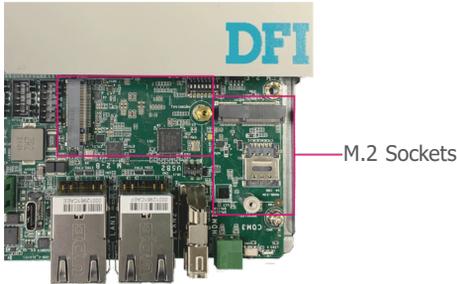
### Step 2:

Slide the cover to open the system.



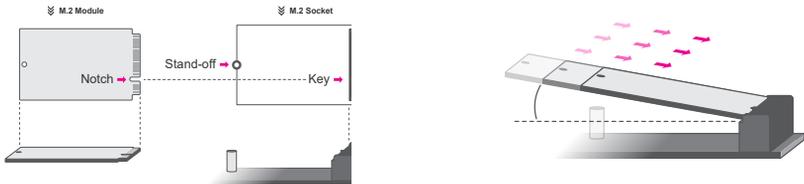
## Installing an M.2 Card

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



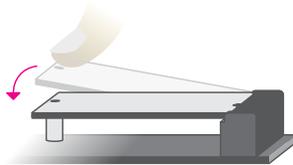
### Step 1:

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



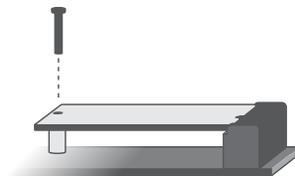
### Step 2:

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 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.

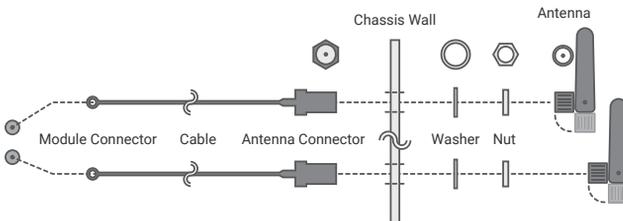
### Step 1:

There are antenna holes reserved on the right side of the system and by default 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.



## Mounting Options

The system features DIN-rail mount chassis that facilitates fast installation of the EC900-8MM/EC910-8MM to a DIN rail.

The DIN Rail mount kit includes the following:

- Din-rail mount bracket
- 2 screws

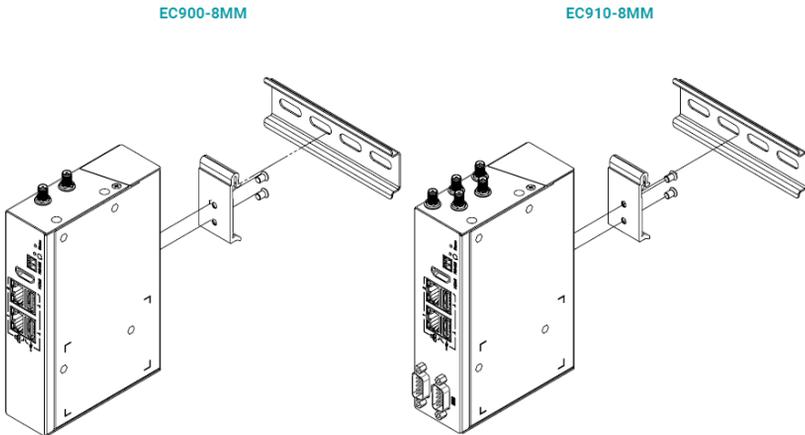
### Step 1:

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



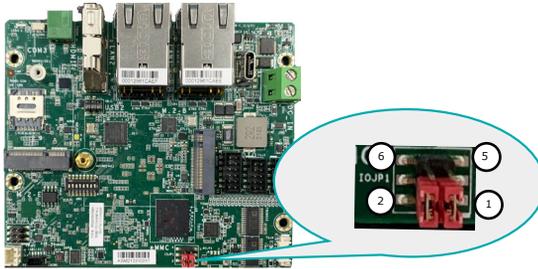
### Step 2:

Install the system onto the rail.

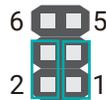


# Jumper Settings

## ► IOJP1



- 2-4 On: VCCP 5V (Default)
- 3-5 On: DIO 5V (Default)



- 1-3 On: DIO 3V3 (Default)
- 2-4 On: VCCP 3V3 (Default)

## PIN Assignment

### ► RS485

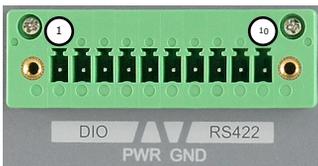
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Pin	Assignment
1	DATA-_RS485
2	DATA+_RS485

### ► Digital I/O Connector

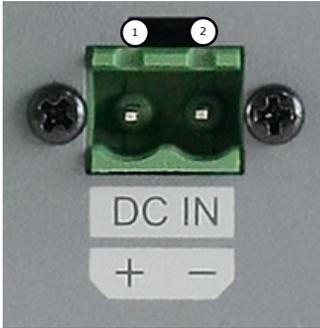
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Pin	Assignment
1	D_IOA0
2	D_IOA1
3	D_IOA2
4	D_IOA3
5	RFU_PWR (3V3)
6	GND
7	TX-
8	TX+
9	RX+
10	RX-

## ► DCN1/DC Jack

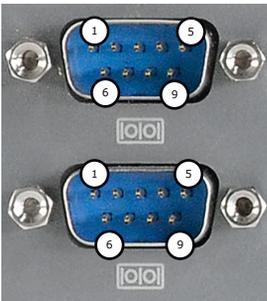
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Pin	Assignment
1	PWR
2	GND

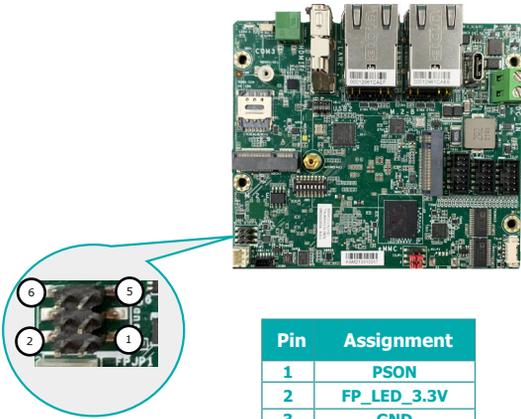
## ► COM ( For EC910-8MM)

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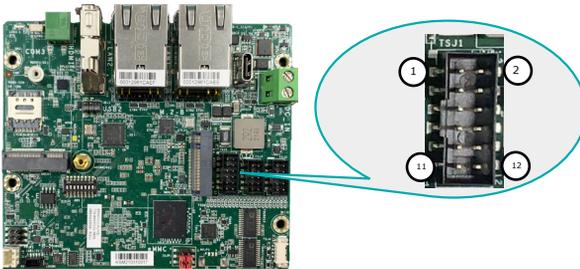
Pin	Assignment
1	DCD
2	RX
3	TX
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

## ► FPJP1



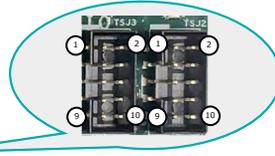
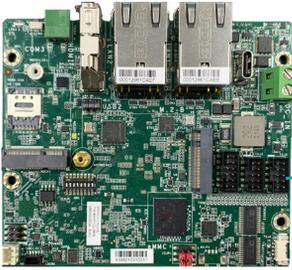
Pin	Assignment
1	PSON
2	FP_LED_3.3V
3	GND
4	SYS_LED#
5	SYS_RST
6	SYS_ON/RSV_BTN

## ► TSJ1/DIO



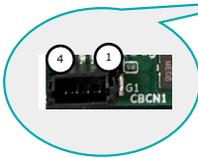
Pin	Assignment
1	DIO0
2	DUO1
3	DIO2
4	DIO3
5	GND
6	3V3
7	TX-
8	TX
9	RTS
10	RX+
11	CTS
12	RX-

## ► TSJ2 & TSJ3 -RS232



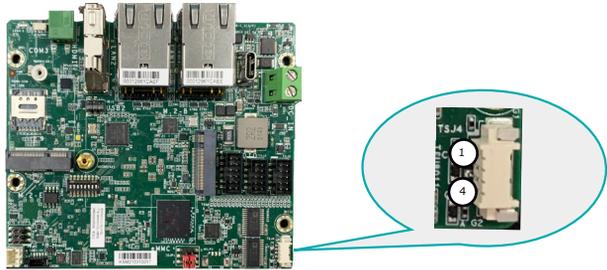
Pin	Assignment
1	DCD
2	RX
3	TX
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI
10	NC

## ► CBCN1/CAN



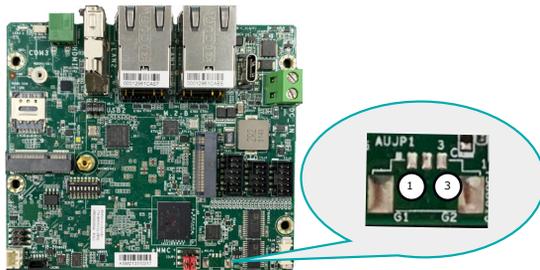
Pin	Assignment
1	3.3V
2	CANH
3	CANL
4	GND

## ► TSJ4 Debug



Pin	Assignment
1	3.3V
2	RX
3	TX
4	GND

## ► AUJP1



Pin	Assignment
1	LINE_OUTR
2	GND
3	LINE_OUTL



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.

