

# DFI®

## VC230-BT Installation Guide



### Package Contents

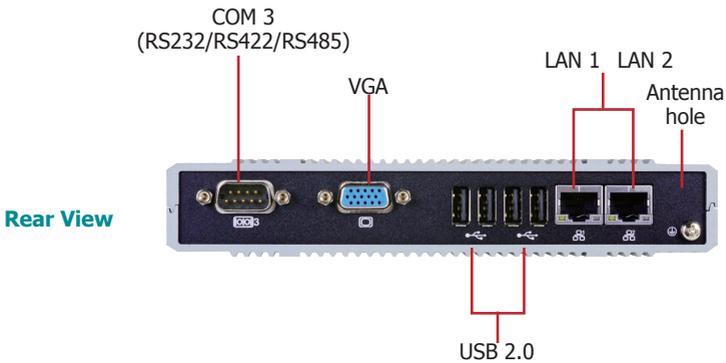
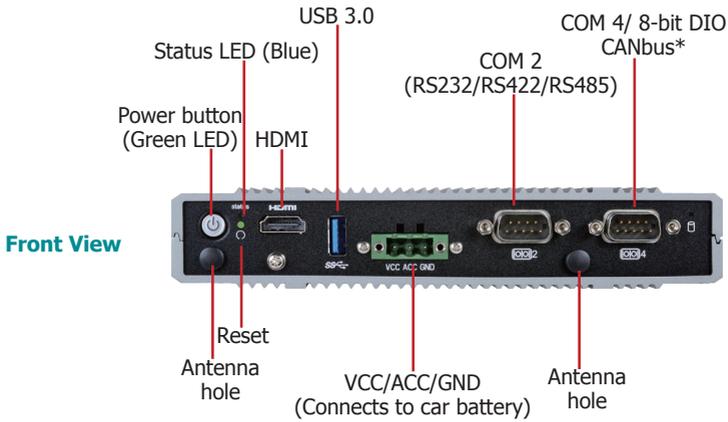
- |  |
|--|
| • 1 VC230-BT system unit                 |
| • 6 Mounting screws for Mini PCIe module |
| • 1 Quick Installation Guide             |
| • 1 Disk includes:                       |
| - Drivers / Manual                       |

#### Note:



The CD that came with the system contains an autorun screen to install drivers, utilities, and software applications required to enhance the performance of the system and a user's manual for your reference. Insert the CD into a CD-ROM drive. The autorun screen will appear. If after inserting the CD, "Autorun" did not automatically start, please go directly to the root directory of the CD and double-click "Setup". Please install all required drivers.

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



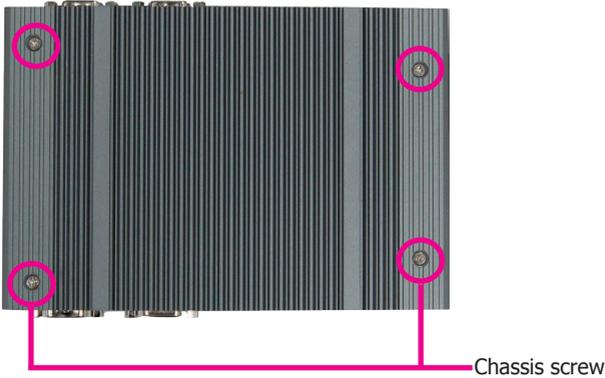
**Note:**

You can choose to wire the COM 4 port to be a CANbus (Controller Area Network) interface instead.

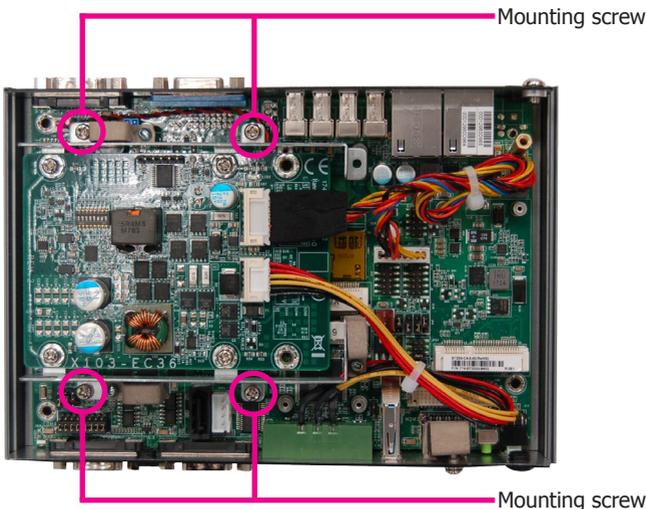
## Removing the Chassis Cover

Please observe the following guidelines and follow the procedure 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.
3. The 4 mounting screws on the bottom side of the system are used to secure the cover to the chassis. Remove these screws and then put them in a safe place for later use.



4. After removing the mounting screws, lift the bottom side of the chassis cover to open the system. To access the Mini PCIe and the micro SD slots, remove the four screws to uninstall the power board.



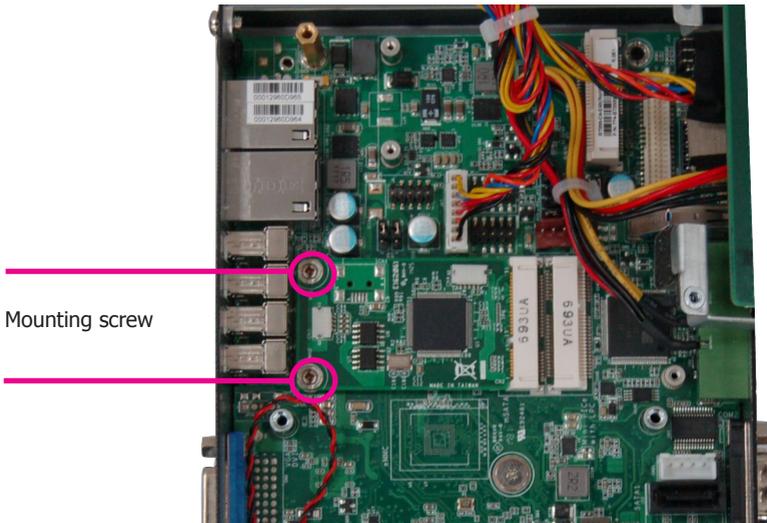
## Installing a Mini PCIe Card

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.

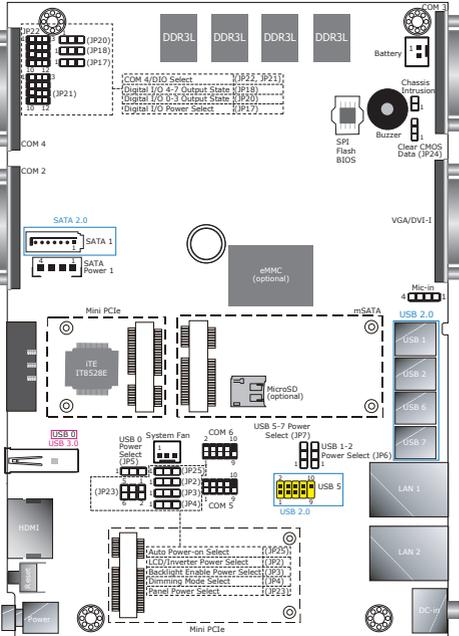


### Note:

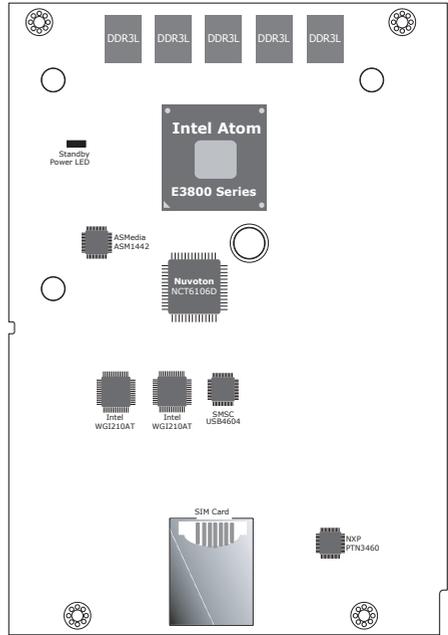
The system also has one additional full-size Mini PCIe and one half-size Mini PCIe slot that use PCIe (PCIe/USB/3G/GPRS/CANbus signals) and LPC (PCIe/USB/LPC signals) interface respectively.



# Board Layout and Jumper Settings



TOP



BOTTOM

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

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

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

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

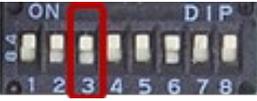
COM 4/DIO Select JP21, JP22	
COM 4 (default)	1-2, 4-5 7-8, 10-11 On
DIO	2-3, 5-6 8-9, 11-12 On

**Note:**

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

## Delay Turn-on/off Switch

The DIP switch (SW1) on the power board can be used to turn on or off the system at a specific on/off delay time via car ignition.

SW1-2: System-on delay enable/disable				
	On (Default)		Enable (delay time setting adjustable by SW1-4 and 1-5 as shown in the table below)	
	Off		Disable (System-on delay = 3 sec)	
SW1-4 and 1-5: System-on delay time setting				
	4	5	Time	
	On	On	10 sec (default)	
	Off	On	30 sec	
	On	Off	1 min	
	Off	Off	5 min	
SW1-3: System-off delay enable/disable				
	On (Default)		Enable (delay time setting adjustable by SW1-6, 1-7 and 1-8 as shown in the table below)	
	Off		Disable (System-off delay = 0 sec)	
SW1-6, 1-7 and 1-8: System-off delay time setting				
	6	7	8	Time
	On	On	On	30 sec (default)
	Off	On	On	1 min
	On	Off	On	3 min
	Off	Off	On	5 min
	On	On	Off	10 min
	Off	On	Off	15 min
	On	Off	Off	30 min
	Off	Off	Off	1 hr



### Note:

The OS will start the shut-down procedure after the car ignition switches off. Please make sure that system-off delay time is sufficient to allow the OS to shut down completely.