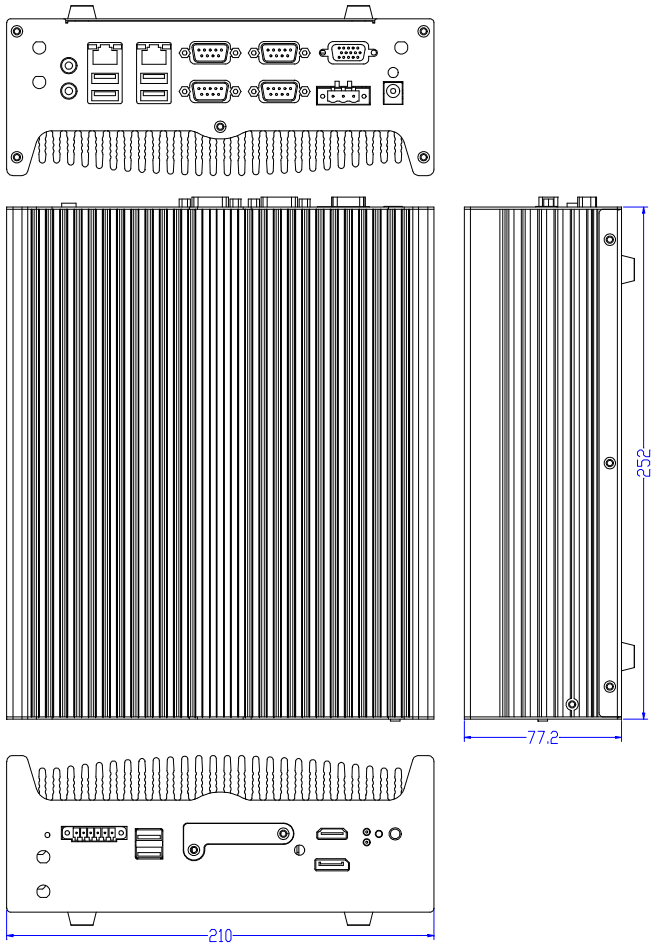
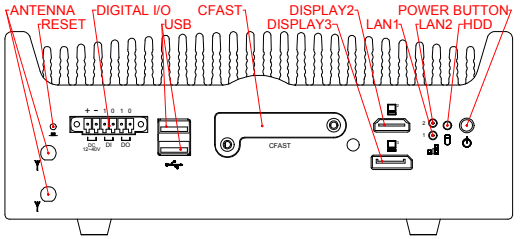
FX5637 Series User's Quick Reference

1. Brief

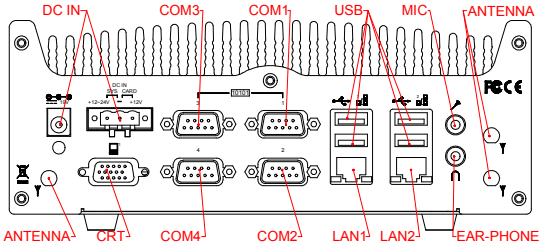
The FX5637x is a fanless, compact size embedded system with Intel® i3™/ i5™/ i7™ processor board inside. This user's quick reference provides the I/O outlets description and their pin assignment.

2. Dimensions (in mm) and Front/Rear Panel Information





(Front Panel)



(Rear Panel)

3. Packing List

A. Standard Items

1 FX5637x embedded system.
1 AC to DC power adapter, 1 AC power cord cable, and 1 pair of cable-tie.
1 pack of 2.5" SATA hard disk installation kit (2 cables with 4 fixed screws).
1 3-pin apartable terminal block. (Pitch: 5.08mm)
1 6-pin apartable terminal block. (Pitch: 3.5mm)
2 screws for riser card installation and 4 screws for minicard (mini PCIe) installation.
1 compact disc includes software utilities and manuals.

B. Optional Items for All FX5637x system

Half size mini PCIe module adapter kit (AK1006, 1 piece of metal with 2 screws, P/N: 0606010028G)
Wall mounting kit (FX5636K1, P/N: 0606010027G, 2 pieces of metal with 4 fixed screws)
DDR3L RAM anti-vibration kit (FX5637K1, P/N: 0606010033R, 2 pieces of metal with 6 fixed screws and 2 thermal pads)

C. Optional Items for FX5637S1-ix

1 slot PCI riser card (FB4705, P/N: 0153000001G)
1 slot PCIe riser card (FB4744, P/N: 0120010003R)
Add-On card holder kit (FX5637K2, 1 piece of metal, 1 piece of plastic and 3 screws, P/N: 0606010034G)

D. Optional Items for FX5637S2-ix

1 slot PCI and 1 slot PCIe riser card (FB4745, P/N: 0120010004R)
2 slot PCI riser card (FB4730, P/N: 0153010001G)
2 slot PCIe riser card (FB4756, P/N: 0153010006G)
Add-On card holder kit (FX5637K3, 1 piece of metal, 2 pieces of plastic and 4 screws, P/N: 0606010035G)

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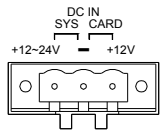
4. Features

* **Processor Board**
  Intel® Core-i low power processor with 8GB DDR3L RAM. (8GB DDR3L maximum)
  FX5637x-i3 : i3™4102E (1.6GHz, 2C/4T, 3MB Cache, 1600MHz FSB, 25 Watts)
  FX5637x-i5 : i5™4422E (1.8GHz to 2.9GHz, 2C/4T, 3MB Cache, 1600MHz FSB, 25 Watts)
  FX5637x-i7 : i7™4700EQ (2.4GHz to 3.4GHz, 4C/8T, 6MB Cache, 1600MHz FSB, 47 Watts)
* **I/O Outlets**
  Two 10/100/1000 base-TX Ethernet ports.
  6 USB ports, 2 RS-232, and 2 RS-232/422/485 serial ports.
  1 VGA, 1 HD display port, 1 DP display port, 1 Earphone, and 1 Microphone connectors.
  1 DC-In plug connector, 1 3-pin terminal block, and 1 power button.
  2 isolated inputs and 2 isolated outputs.
  1 HDD/CFast access LED and 2 LAN LEDs.
  1 free PCI/PCIe expansion slot. (Depend on riser cards and FX5637S1 only)
  1 free PCI and 1 free PCIe expansion slots. (Depend on riser cards and FX5637S2 only)
* **Storage Bay**
  1 CFast socket for CFast modules.
  2 mini PCIe sockets and 2 SIM sockets.
  One 2.5" SATA hard disk space.
* **Power requirement**
  +12 ~ +24V DC, 3.35A maximum (2.42A typical) with FX5637x-i7, 19V input voltage, and w/o expansion cards.
* **Dimensions**
  252.0mm (D) x 210.0mm (W) x 77.2mm (H) without rubber stands and wall mounting kit.

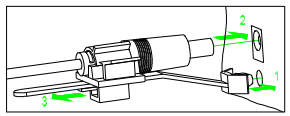
5. I/O outlets and LED Indicators

A. *Power Connectors (DC +12 to +24V, 75W minimum)*



Terminal Block

DC Plug-In Connector



Note: +12V input on terminal block is power supply for expansion card on FX5637S1/S2 models.

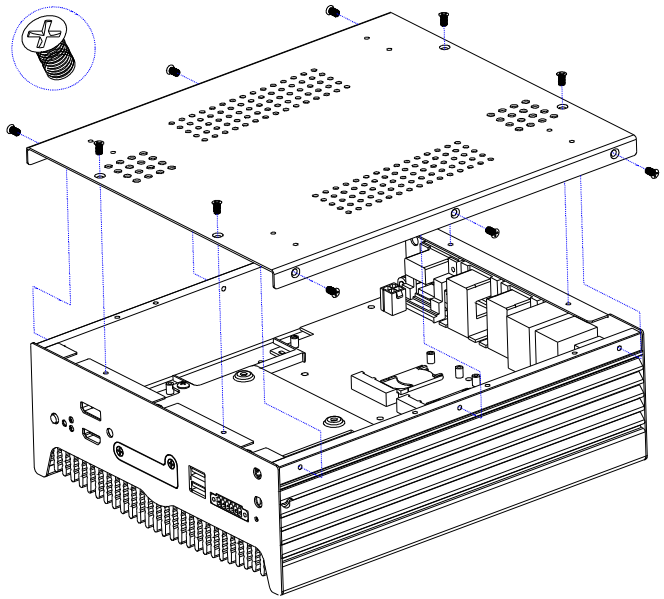
B. *LAN LED Indicators (RJ45)*

The LAN port is a RJ45 connector with 2 LEDs. The orange LED indicates data is accessing and the green LED indicates on-line status.

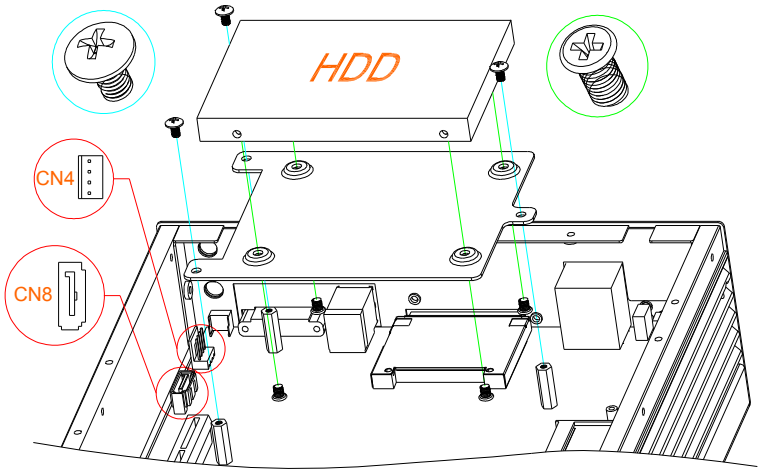
6. Software Configuration and Driver Installation

Please refer to the driver installing documentaion in the included Compact Disc for installing what device driver you need. If you need to change the system settings or configurations of I/O ports, Please refer to User's Manual (also in the included Compact Disc) for details.

7. Open the Bottom Cover for installing HDD, DDR3L, mini-PCIe modules (WLAN), and Antenna.



Release 10 screws as upper figure shown



Install SATA HDD as upper figure shown. (4+3 screws)
Note: CN8 is the SATA signal connector; CN4 is used for SATA power connection with included adapter cable.

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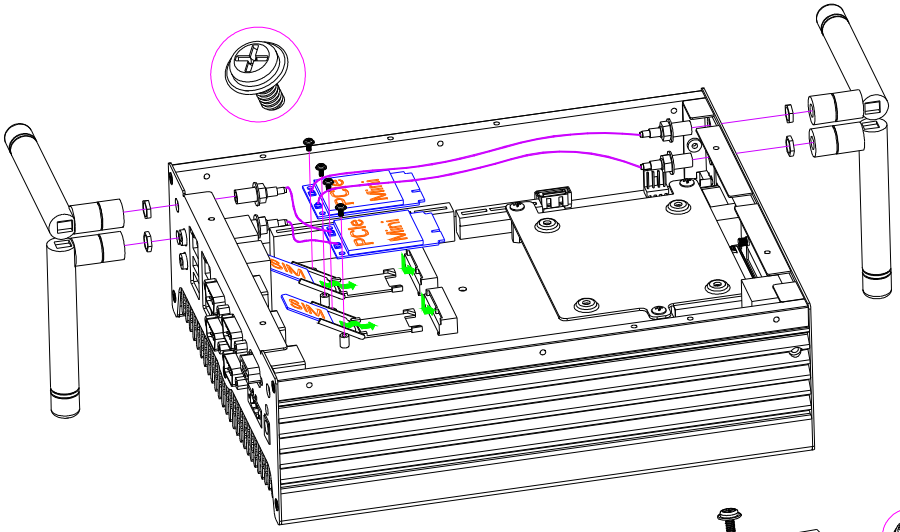
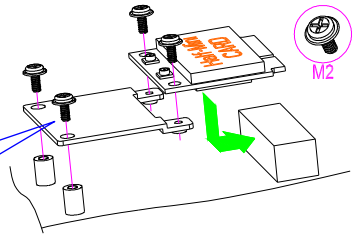
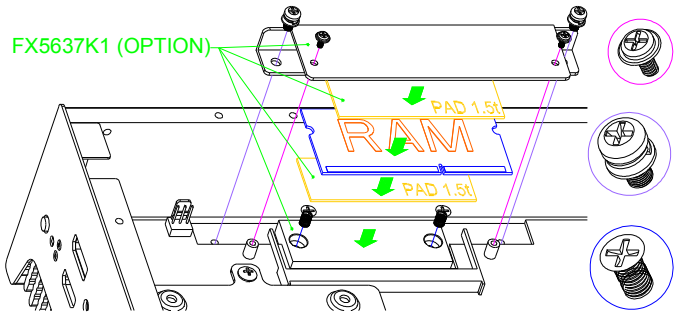


Install mini PCIe Module and Antenna.
Note that install SIM card (if necessary) before installing mini PCIe module.



Half size mini PCIe adapter (Optional)

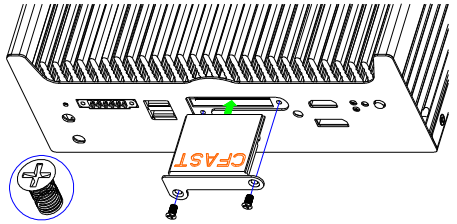
Installing half-size mini PCIe module if necessary.

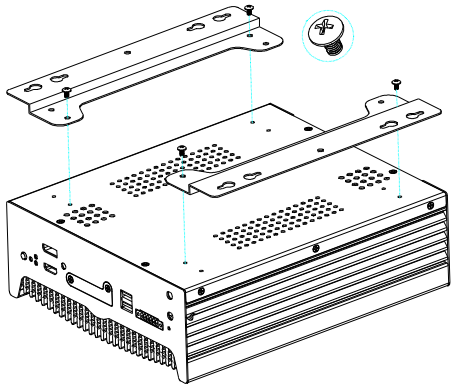


Install DDR3L RAM Module with FX5637K1. (Fasten the RAM module and help for heat dispassion)

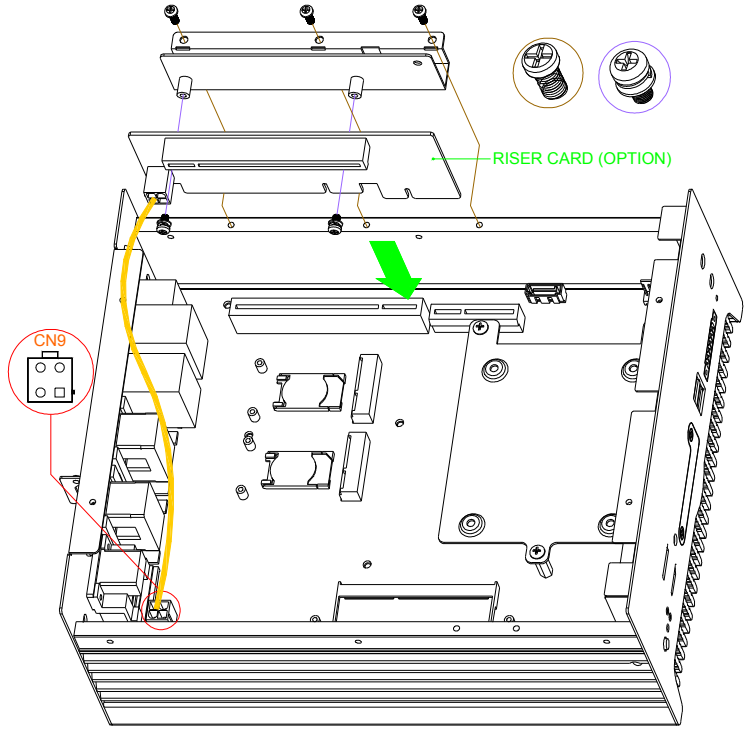
After all installations done, close bottom cover and fasten 10 screws

8. Install the CFAST Module and Wall Mount Kit





9. Install the Add-On Cards for FX5637S1-ix and FX5637S2-ix models



Step 1: Install the riser card and aux. power cable for add-on cards.

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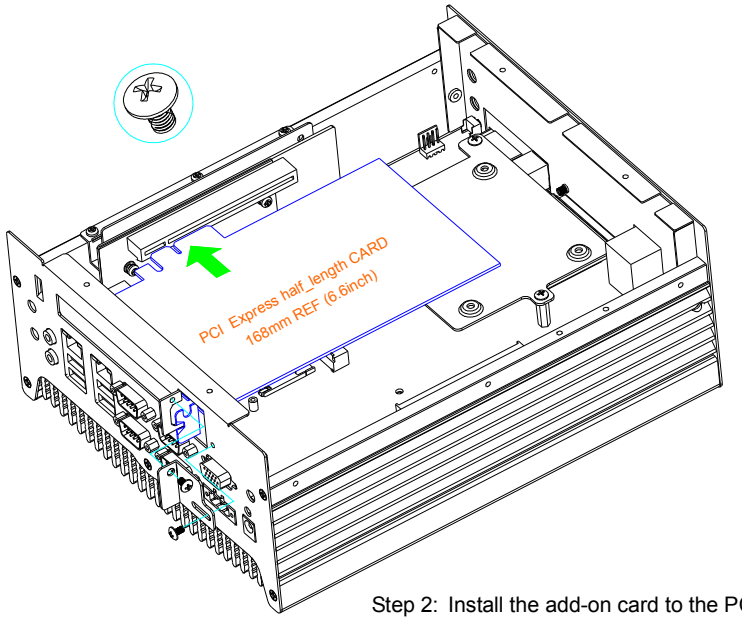
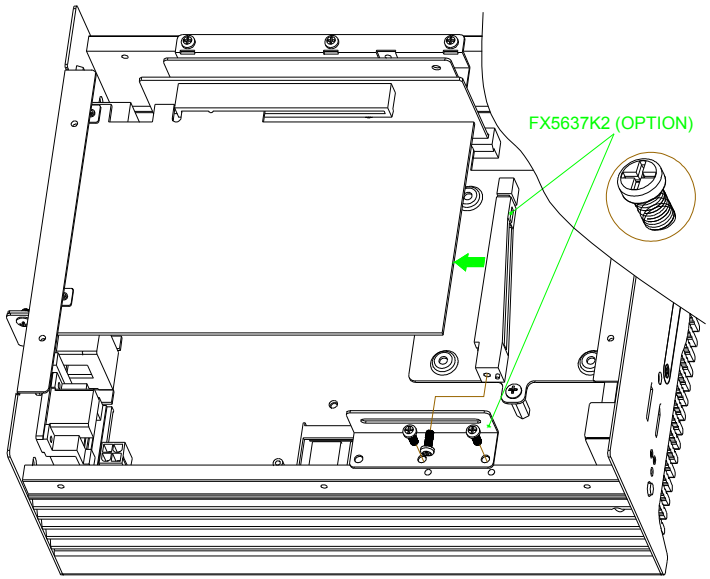
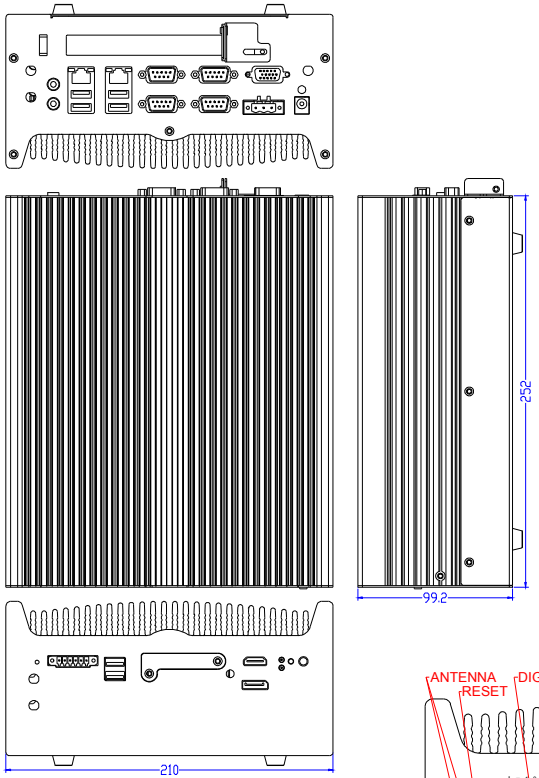


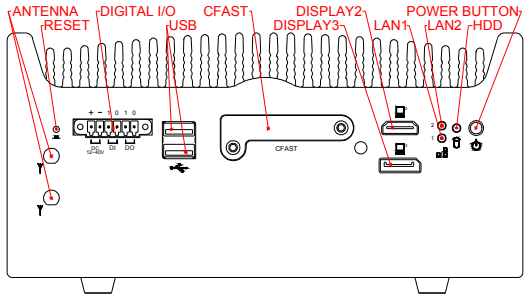
Step 2: Install the add-on card to the PCI/PCIe slot smoothly.

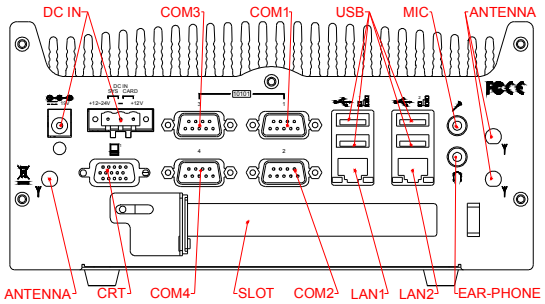


Step 3: Install the add-on card holder (FX5637K2) if necessary.

10. Dimensions (in mm) and Front/Rear Panel Information of FX5637S1-ix







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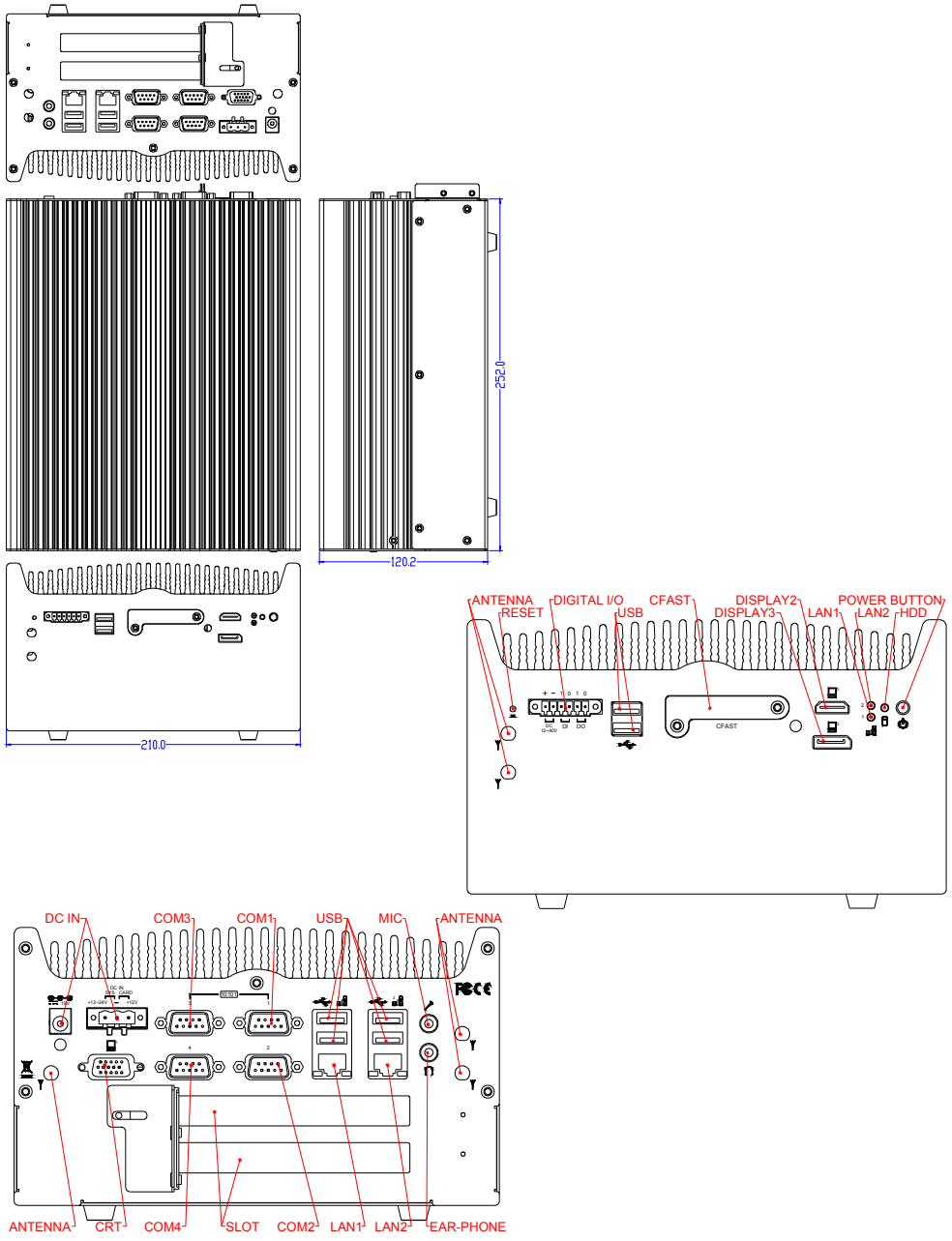
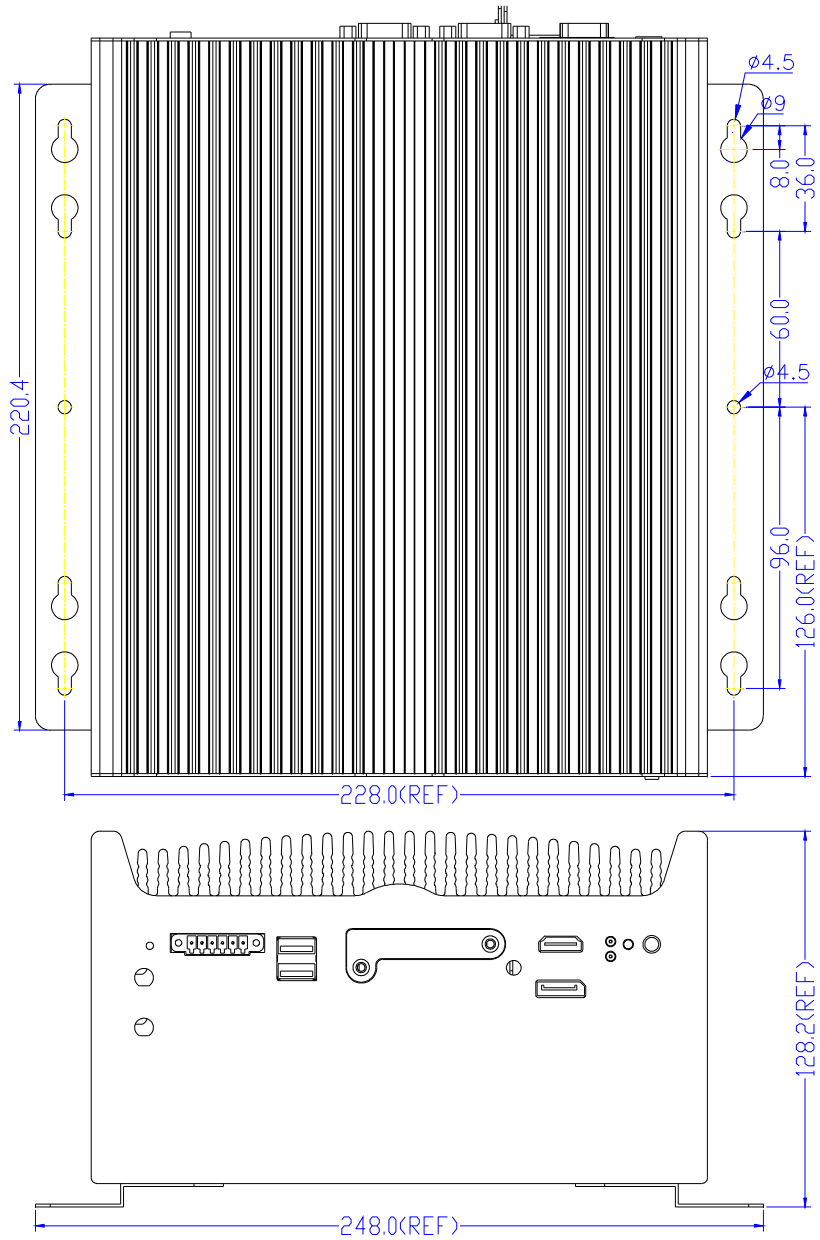
11. Dimensions (in mm) and Front/Rear Panel Information of FX5637S2-ix



12. Dimensions (in mm) of FX5637S2 with Wall Mount Kit (FX5636K1)



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