Quick Installation Guide

NO. G03-JC501QIG02-F
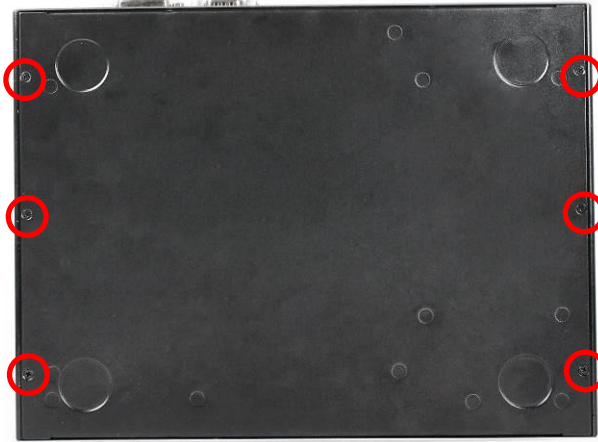
Rev：3.0

Release date: 2023/6/26
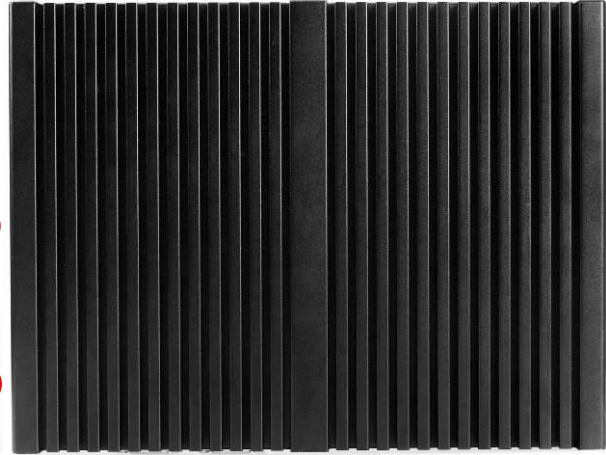
1. *To Open the Chassis*

1. Locate the screws in the spots marked on the top cover of the system and unscrew them one by one.

2. Turn over the barebone system with the heatsink upwards, as the photo shows.

3. Remove the screws in the marked positions on the front panel.

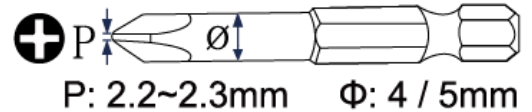4. Remove the screws in the marked positions on the rear panel.

5. Lift the cover up to open the chassis.

Note：

#2 Phillips Screwdriver is recommended. ➕ P ⟨⟩ ∅

P: 2.2~3.3mm   Φ: 4 / 5mm

Notice: For user to have a clear view of layout, we may unplug some of the cables during installation. In this case, make sure that the cables are plugged into their original places when necessary installation finished for the system to function normally.

2. *To Install CPU*
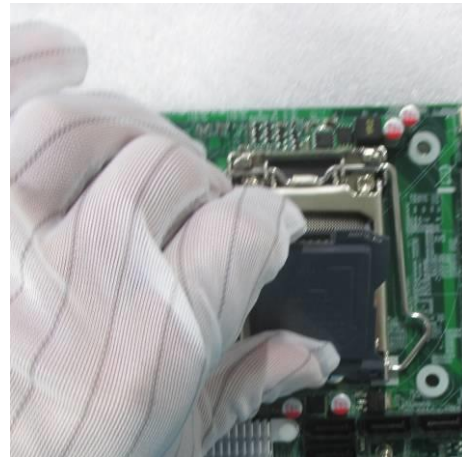
1. Find CPU socket on the board. Please make sure that CPU socket is facing towards you and the level is on you right hand side.

2. Remove the plastic protective plastic cover from the socket. (Put it to the original place if CPU is not installed. Do not touch the metal contact point of the CPU socket).
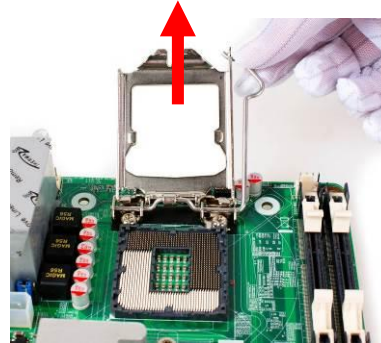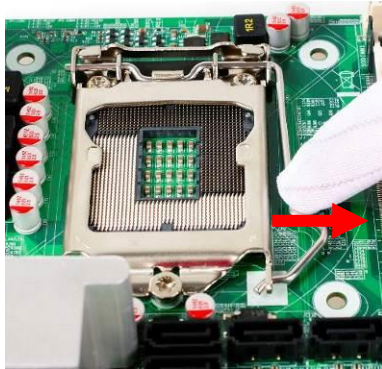
3. Press down the level and move it towards the right side to free it from the hook.

4. Open the level upwards about 135 degree and the metal protection plate will be pulled up at the same time.

Alignment Key

Alignment Key

Golden Finger Indicator
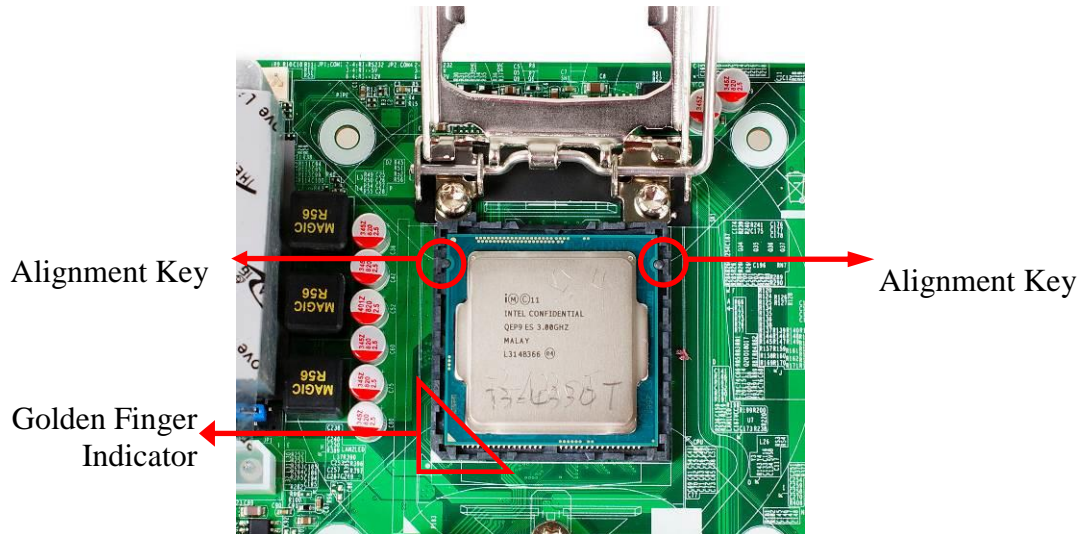
5. Make sure that Pin-1 Golden Finger Indicator in the right place as shown in the above photo and match the two alignment keys on the CPU with two points of the socket. CPU can only be correctly installed with this direction. Incorrect installation might cause damage to CPU.

6. Put down the load plate in the direction shown above.

7. Press down the load level and move it leftwards to make sure it is locked under the notch.

Notice：Please remove the screws that lock the board to the chassis cover when CPU installation completed to install CPU heatsink upon CPU. The cables unplug during this process should be plugged to their original places after heatsink installation.

3. *To Install CPU Heatsink upon CPU*

1. Find the above CPU heatsink and CPU thermal conductive gel package. Remove the protective films on the both sides of the gel and apply the gel upon the bottom side of the heatsink.
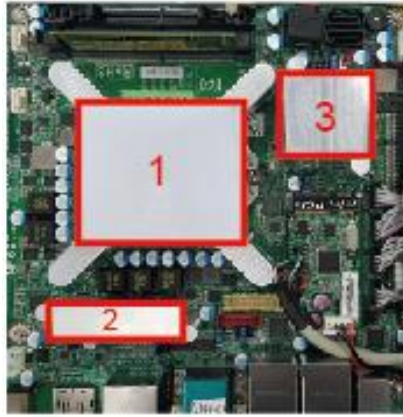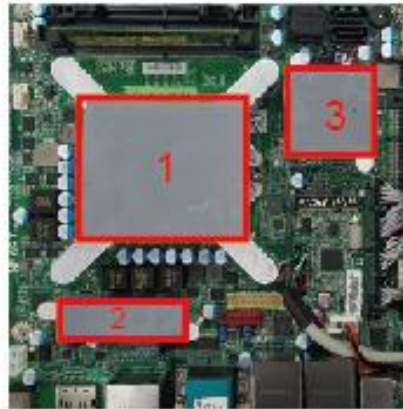
1: CPU Thermal conductive gel
(P/N: HCS3XXHS2-F*1 pcs), 20*20*0.5mm

2: PWM IC Thermal conductive gel
(P/N: HCS501HS1-F*1 pcs), 15* 47*1 mm

3: South Bridge Thermal conductive gel
(P/N: HCS501HS2-F *1 pcs), 25*25*1 mm

2. Apply corresponding thermal conductive gels to the bottom side of the heat sinks as the photo show, and then place the CPU, PWM IC and South Bridge heatsink upon the board. The screw holes of the heatsink should match corresponding screw holes of the board.

1: CPU Thermal conductive gel
*(P/N: HCS310HS1-F*1pcs), 60*52*1.0mm*

2: PWM IC Thermal conductive gel
(P/N: HCS501HS1-F*1pcs), 15* 47*1 mm

3: South Bridge Thermal conductive gel
*(P/N: HCS501HS2-F*1pcs), 25*25*1 mm*

3. Tighten up the screws to lock the heat sinks to the board, and then apply corresponding thermal conductive gels to the top side of the heat sinks as the photo shows. When installation finished, tear off the protective film from the gels before assembling the back cover to the chassis.

Notice: There should be one more **HCS310HS1-F/ HCS501HS1-F/ HCS501HS2-F/ HCS3XXHS2-F** left as spare parts after normal assembly. User can use them to replace corresponding damaged thermal conductive gels.

4. *To Install SO-DIMM to the board*
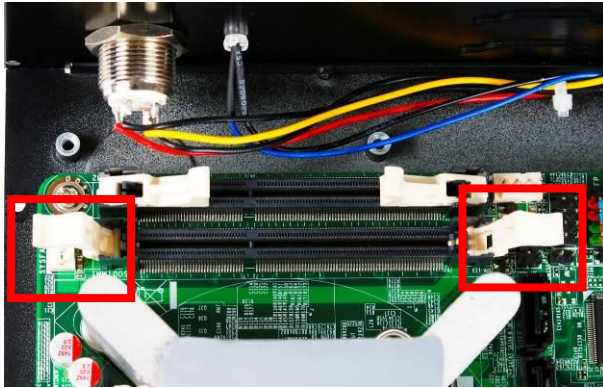
1. Find the SO-DIMM slot on the board and open the two eject tabs for further installation.
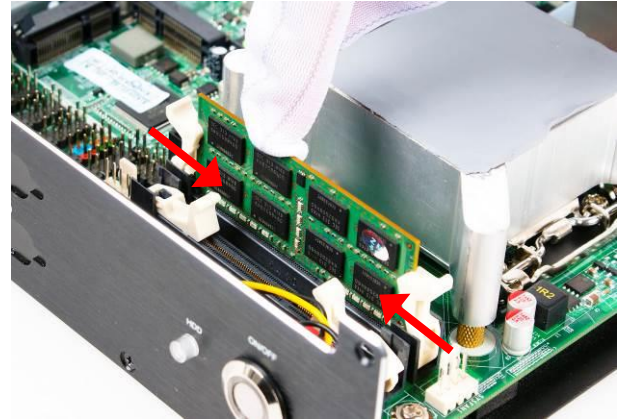
2. Insert the gold-figure side of the compatible SO-DIMM into the slot. The eject tabs will lock automatically if installed correctly.

5. *To Install Mini PCIe Card*

1. Locate the full-size Mini PCIe slot on the board.

2. Remove the marked screw and use it to lock Mini PCIe card to the slot in later installation.
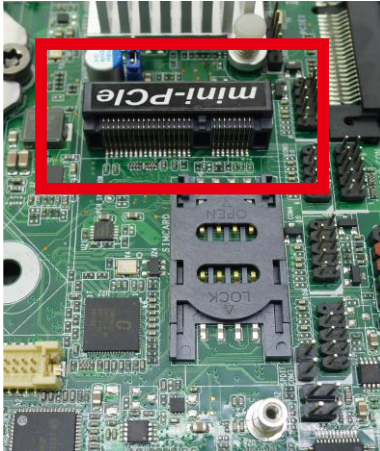
3. Insert the gold-figure side of the compatible Mini PCIe card into the slot at a 30 degree.

4. Lock the card to the board by tightening up the screw to the marked spot.

6. *To Install WI-FI Card*

1. Locate the half-size WIFI slot on the board.

2. Remove the marked screw and use it to lock WIFI card to the slot in later installation.
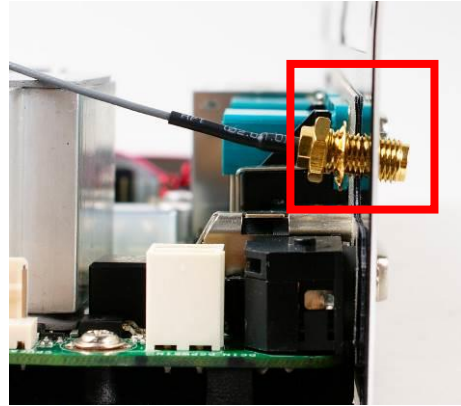
3. Insert the gold-figure side of the compatible WI-FI card into the slot at a 30 degree angle and press down.

4. Lock the card to the board by tightening up the screw to the marked position.

5. Locate the reserved Wi-Fi antenna holes on the front panel. Remove the semi-broken shield from the panel to install the antenna, as the following details show.

a) **Back-side View:** Put the metal ring into the antenna head at first, and then push this antenna head into antenna hole of the rear panel.

b) **Front-side View:** Put the other metal ring into the antenna head, and then lock the antenna head to the front side of the rear panel with the with hexagonal bolt.

6.   Press the metal hat on the end of the antenna string to the antenna slot on the card as shown (If you install two antenna, refer to above steps to finish installation, and press the left metal hat of the left antenna to the left slot, the right metal hat to the right slot).

7.   Connect the external Wi-Fi receiver antenna to the antenna connector on the rear panel.

7. To Install Hard Disk
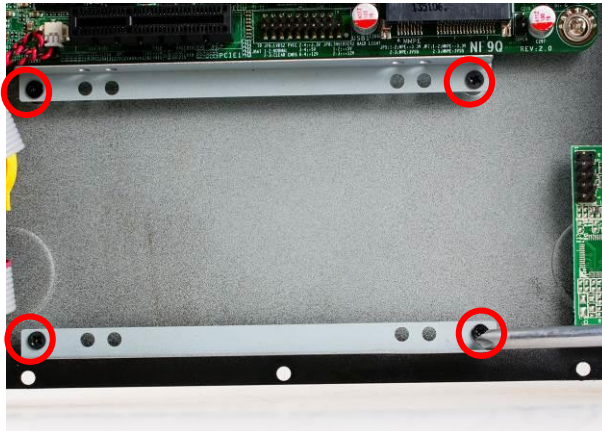
1.   Remove the HDD racks from the cover by tightening up the screws in the marked places.

2.   Adjust the HDD and the racks in the directions as the above photo shows.

3. Lock the SATA hard disk to one of the racks by tightening the screws in the marked position.

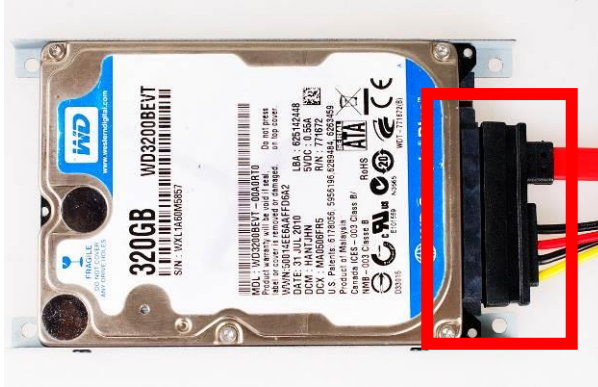4. Lock the SATA hard disk to the other rack by tightening the screws in the marked position.

To connect onboard SATA port.
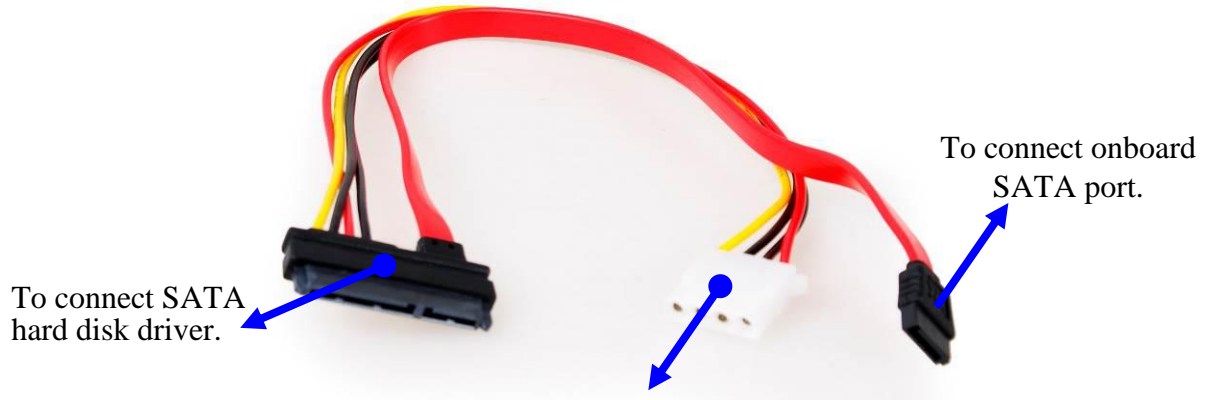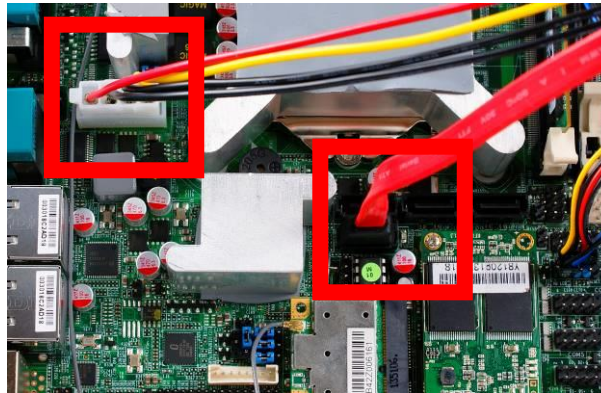
To connect SATA hard disk driver.

To connect onboard SATA power connector.

5. Find the compatible SATA cable for the system in the accessories package.

6. Plug this side of the cable to SATA power-in connector and SATA connector of the hard disk.

7. Lock the racks hard disk with SATA HDD installed to its original places by tightening the screws in the marked position.


8. Plug the other side cable to the SATA power connector and SATA port connector on the board.

Notice:

When all necessary installations are finished, please make sure that all cables unplugged before installations are connected to their original places before restoring the back cover to the chassis and screws on the front panel/back panel/top cover locked to its original places (Refer to Part I). See to it that the cables inside are not blocked or pressed.

8. To Wall Mount the System
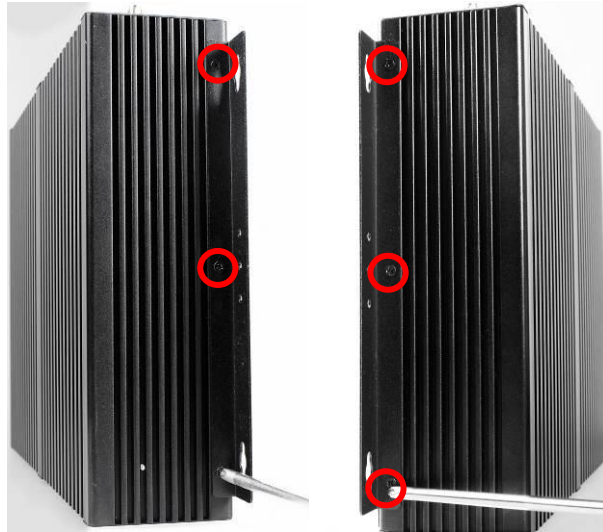
1.   Install wall mount rack to the system by tightening two screws in the marked position. Then lock the other three screws on the other side in the same way.
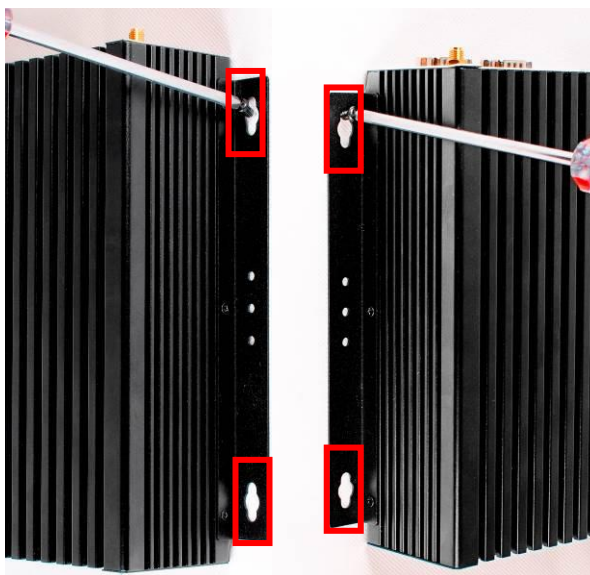
2.   Wall mount the system by tightening two screws in the marked positions. Then tighten up the other two screws in the marked positions on the other rack.

Regulatory Compliance:

Declaimer

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FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at user's own expense.

*Not*e: *1.Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 2. Shielded interface cables must be used in order to comply with the emission limits.*

CE Notice

The product described in this QIG complies with all applicable European Union (CE) directives if it has a CE marking. For computer systems to remain CE compliant, only CE-compliant parts may be used. Maintaining CE compliance also requires proper cable and cabling techniques.

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