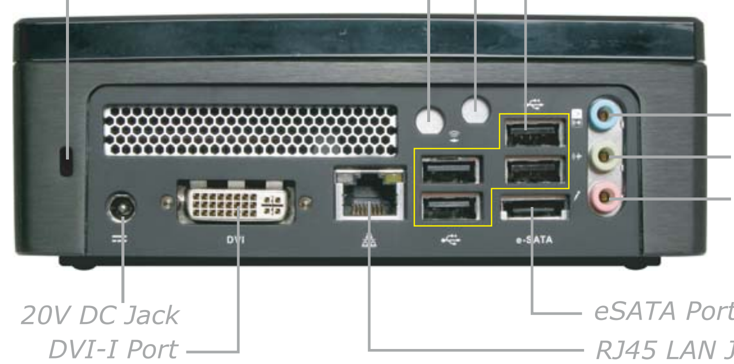
XC mini

Easy Installation Guide



Small Form Factor Green PC: Energy Star 4.0 POWER SAVING · Idle mode ≤22dB SILENT · RoHS COMPLIANT · 1.36L SPACE SAVING

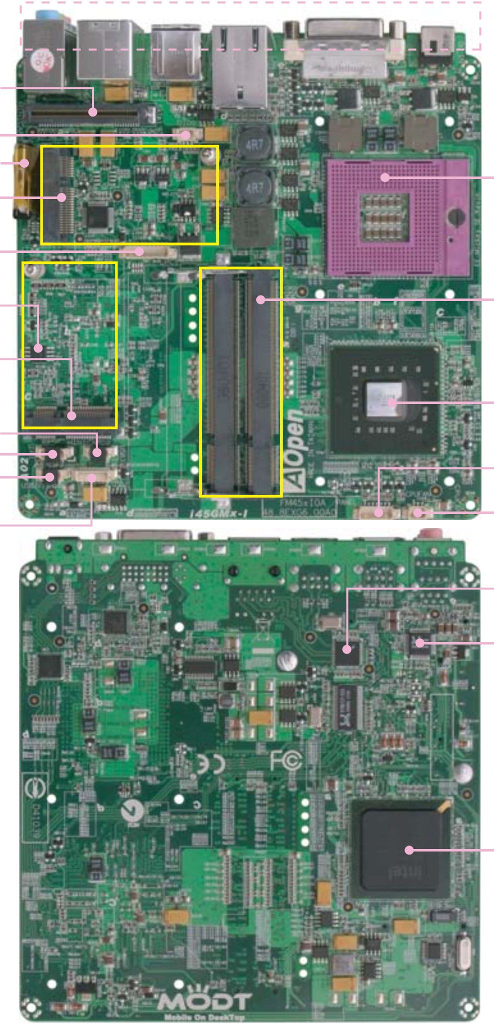
Part No.: 49.MB401.A110
Doc. No.: MP45DR-EG-E0807B

powered by aopen

Accessories List

Optional Expansion Items

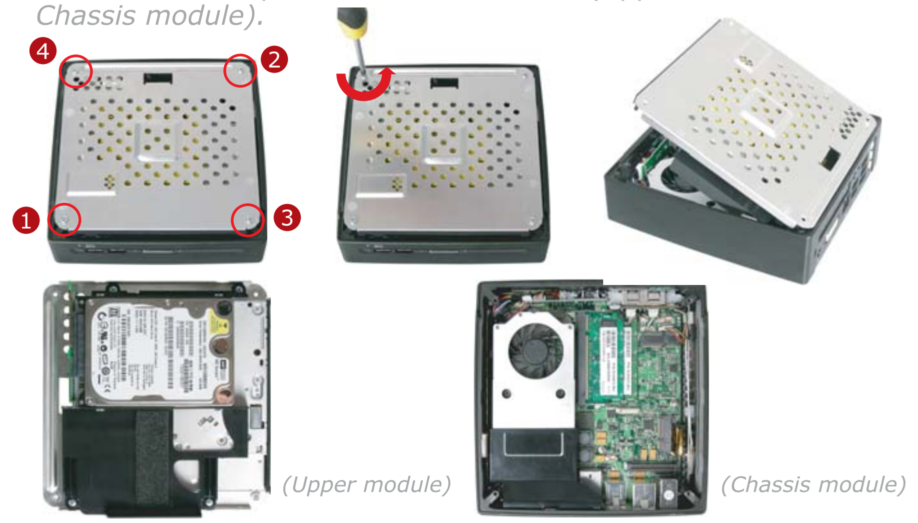
Mainboard Overview



Disassemble XC mini

1. Disassemble the Top Cover carefully to avoid scratching the Top Cover.

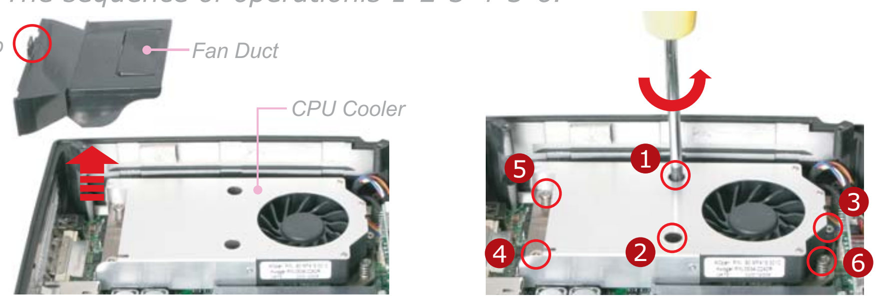
2. Use the Phillips(+) screwdriver to detach the sheet metal screws (4pcs).
3. Disassemble the product to two modules (Upper module and Chassis module).



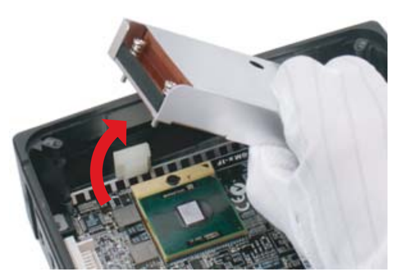
Upgrade / Install CPU

This socket supports FCPGA6 package CPU (Socket P), which is the latest Core 2 Duo (Penryn) package developed by Intel. Please don't put the other CPU.

1. Take the chassis Module. Use the rib of fan duct to detach the fan duct.
2. Detach 6 screws of the CPU Cooler by the Phillips(+) screwdriver. The sequence of operationis 1-2-3-4-5-6.

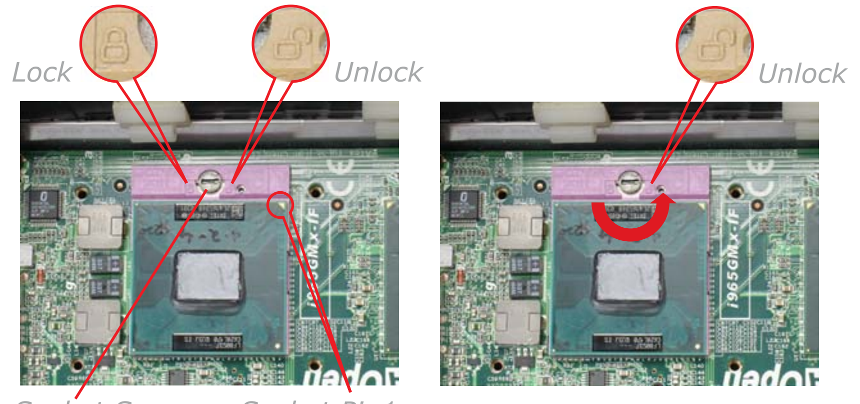


3. Move over the CPU Cooler carefully. Avoid damaging the component of the mainboard.

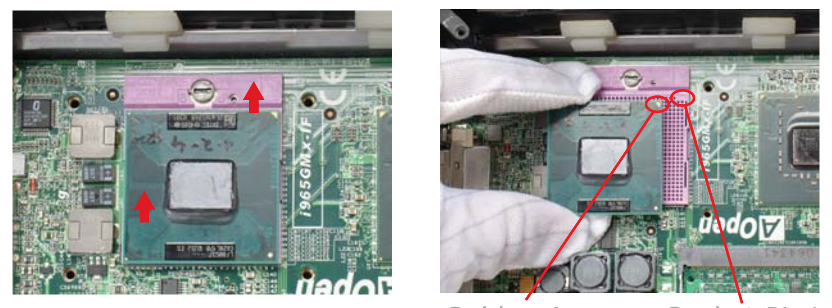


Note:
There is one cable connected to board. Please keep it connected. If you remove it by accident, please connect it again.

4. Use the Slotted(-) screwdriver to turn CPU socket screw toward the unlock mark. (Anticlockwise direction)

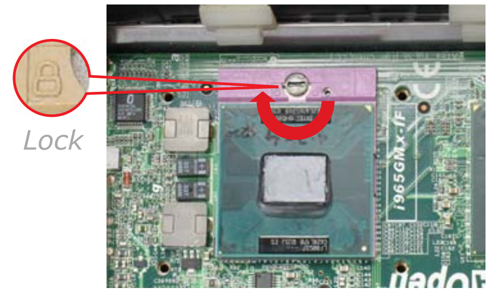


5. Remove existing CPU, then install new CPU. Locate Pin 1 in the socket and look for a golden arrow on the CPU upper interface. Match Pin 1 and golden arrow. Then insert the CPU into the socket.



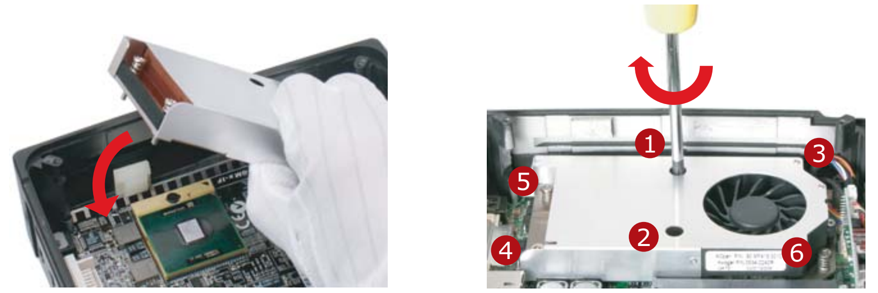
Note: If you do not match the CPU Socket Pin1 and CPU Golden arrow well, you may damage the CPU.

6. Use the Slotted(-) screwdriver to turn CPU socket screw toward the Lock mark. (Clockwise direction)

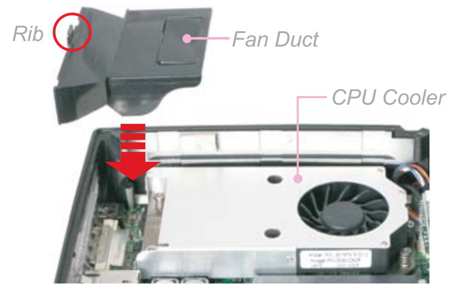


Note: When screw the socket. You will hear a slight sound "Dock". That means you already installed CPU successfully.

7. Fit the CPU Cooler into their respective holes of the mainboard and use the Phillips(+) screwdriver to tighten screw 1-2-3-4-5-6. make sure the CPU Cooler is fastened to the mainboard evenly.



8. Install the Fan Duct Vertically.



CPU Frequency Table

Processor Number	Architecture	Clock Speed	Front Side Bus	L2 Cache	Support BIOS Version
Intel Core 2 Duo (Penryn) CPU					
Core 2 Duo T9600	45nm	2.80 GHz	1066 MHz	6MB	From R1.00
Core 2 Duo T9400	45nm	2.53 GHz	1066 MHz	6MB	From R1.00
Core 2 Duo P9500	45nm	2.53 GHz	1066 MHz	6MB	From R1.00
Core 2 Duo P8600	45nm	2.4 GHz	1066 MHz	3MB	From R1.00
Core 2 Duo P8400	45nm	2.26 GHz	1066 MHz	3MB	From R1.00

* GM45 support front side BUS 667/800/1066MHz.

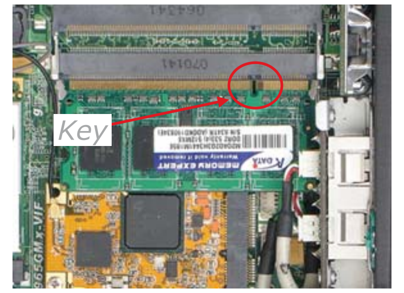
Note: With CPU speed changing rapidly, there might be faster CPU on the market by the time you received this installation guide. This table is kindly for your references only.

Upgrade / Install Memory Modules

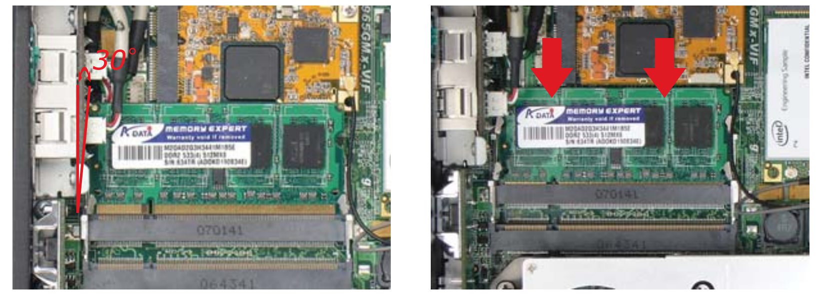
SODIMM slots are designed in high and low positions which are very easy to recognize. Insert the module straight down to the SODIMM slot with fingers and press down firmly until the SODIMM module is securely in place.

1. There're tabs which located in the side of SODIMM holder. Detach the existing memory from the memory slot.

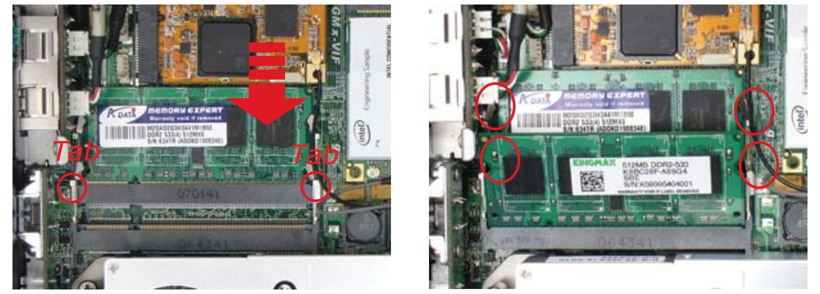
2. Put the memory module with correct direction. Notice there's one key position to make sure direction is correct.



3. Plug in memory module into SODIMM slot with angle 20 ~ 30° . Make sure memory module plug into slot completely.

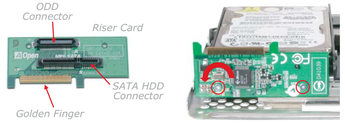


4. User finger to push memory module vertically until the tabs lock memory module tightly. Now, the memory modules have been plugged properly with horizontal flat.



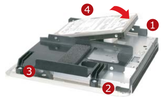
Upgrade / Installing hard disk drive

1. Take the upper module. Use the Phillips(+) screwdriver to detach the Riser Card screws and disassemble the Riser Card.



2. Use the Phillips(+) screwdriver to detach the HDD screw. Remove the existing HDD from the upper module.

3. Install the new HDD into the upper module.
4. The hard disk device has to be fixed to the white plastic fixture with four HDD screws.
5. The operation order is screw 1-2-3-4



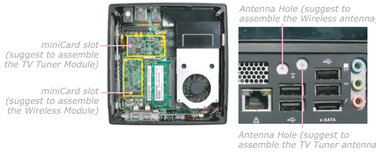
6. Connect the Riser Card with the connector of the ODD drive and HDD.

7. Use the Phillips(+) screwdriver to tighten two screws to fix Riser Card with ODD drive and HDD.

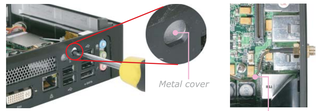
Note : Avoid scratching the golden finger of the Riser Card.

Expansion Slot Installation

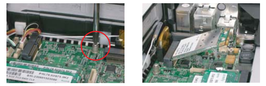
XC mini provides two miniCard slots for users to upgrade this PC functions. Now, the miniCard can have digital TV Tuner and Wireless LAN miniCard Module ...etc. for expansion.



1. Remove the metal cover of the antenna hole by the screw driver.
2. Install the antenna wire into the Antenna hole of rear panel.



3. Use the screw driver to detach the miniCard screw of mainboard.
4. Arrange the wireless LAN wire or TV Tuner wire under the miniCard module.

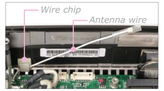


5. Insert the miniCard module and fix it with the miniCard screw.
6. Buckle the Antenna wire on the miniCard module and arrange the wire.
7. Install the antenna.

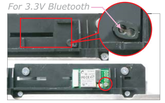
Bluetooth Assembly

1. Put the upper module on the accessory box or JIG accord the photo.
2. The Bluetooth card.

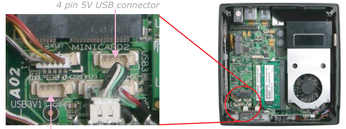
3. The Antenna wire of the Bluetooth card.
4. The Antenna wire was fixed into the wire clip.
5. Take away the Antenna from the wire clip.



6. Take away the protection tube of the Antenna wire.
7. The Bluetooth module and 1pcs BT screw.
   Screw size: M2*L4.6 (Torque: 1.0 ± 0.1 Kgf. cm)
8. Fix the Bluetooth module on the holder of the upper module.
9. Tighten the Bluetooth module with screw.



11. The 3.3V USB connector of the main board.

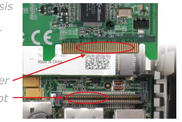


12. Plug the Bluetooth cable with the connector of the main board.
14. Plug the Bluetooth cable with the connector of the Bluetooth card.
15. Buckle the Bluetooth card with the Antenna wire and arrange the wire accord the photo.

Note: The 4 pin 5VUSB connector don't install the 3.3V Bluetooth module

Assemble the Top Cover

1. Take the upper module and chassis module.
2. Fit the golden finger of the upper module to the Riser Card slot of the chassis module.



Note: Arrange the wire or fix it by tapes to avoid interfering with the Riser Card slot from damaging the wire.

3. Use the Phillips(+) screwdriver to fix the sheet metal screws (4pcs).

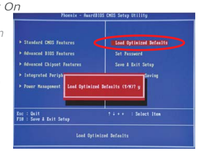
4. Install the Top Cover carefully to avoid scratching it.

Note:
The Concave part of the Top Cover is toward the front side.

BIOS Setup

■ *BIOS Setup when 1st Power On*

After finishing the setting of connect correct cable, power on and enter the BIOS Setup screen, then press <DEL> during POST (Power On Self Test). Choose "Load Optimized Defaults" for recommended optimal performance.



■ *Select ODD name if installing the Windows Vista/XP via ODD*

Before the Windows Vista/XP are installed, please select your ODD name : Advanced BIOS Features > First Boot Device to ODD name. ex. P1-MATSHITADVD.

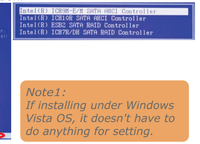
■ *Install eSATA when the Windows XP are installed*

The following details regarding the eSATA drivers installation with Windows XP.

1. Prepare USB FDD Device , 3.5" FDD Diskette and Driver CD.
2. Copy eSATA driver into 3.5"FDD Diskette from Driver CD.
3. Boot from the Windows XP setup disk. Press <F6> after the message "Press F6 if you need to install a third party SCSI of RAID driver" appears.

Please prepare:

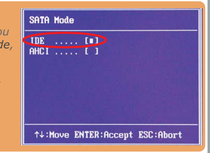
4. Press <S> after "S=Specify Additional Device" appears.
5. Use the arrow keys to select "Intel(R) ICH9M-E/M SATA AHCI Controller".
6. After the SATA driver installation is completed, you can proceed with the Windows XP installation.



Note1:
If installing under Windows Vista OS, it doesn't have to do anything for setting.

Note2:
If you don't have FDD device, you must set SATA mode to IDE mode, but the external HDD can not support HOT PLUG.

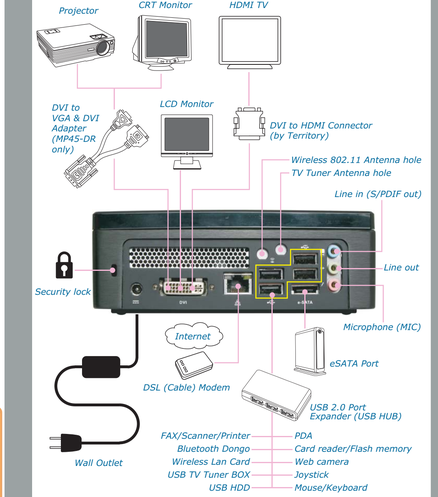
1. Turn on your computer. Press <Del> to enter BIOS setup.
2. Set OnChip IDE mode > SATA mode to IDE.
3. Save and exit BIOS Setup.



Install Driver

You can use the autorun menu of Bonus CD disc. Choose the utility and driver from the icons at left side, and then click on the "GO" button to complete installation automatically.

Rear Panel Connections



Dual Display Arrangement