CMB-378

Mini Barebone system
Intel High Performance Platform
Installation Guide
Edition 1.01
2025/02/07

1

Document Content:

- Packing List
- Product Specification
- Hardware Installation

Packing List:

CMB-378 Chassis x 1

(Including LS-378 Motherboard)

DSPD-080-12A 80W AC-DC Adapter x 1

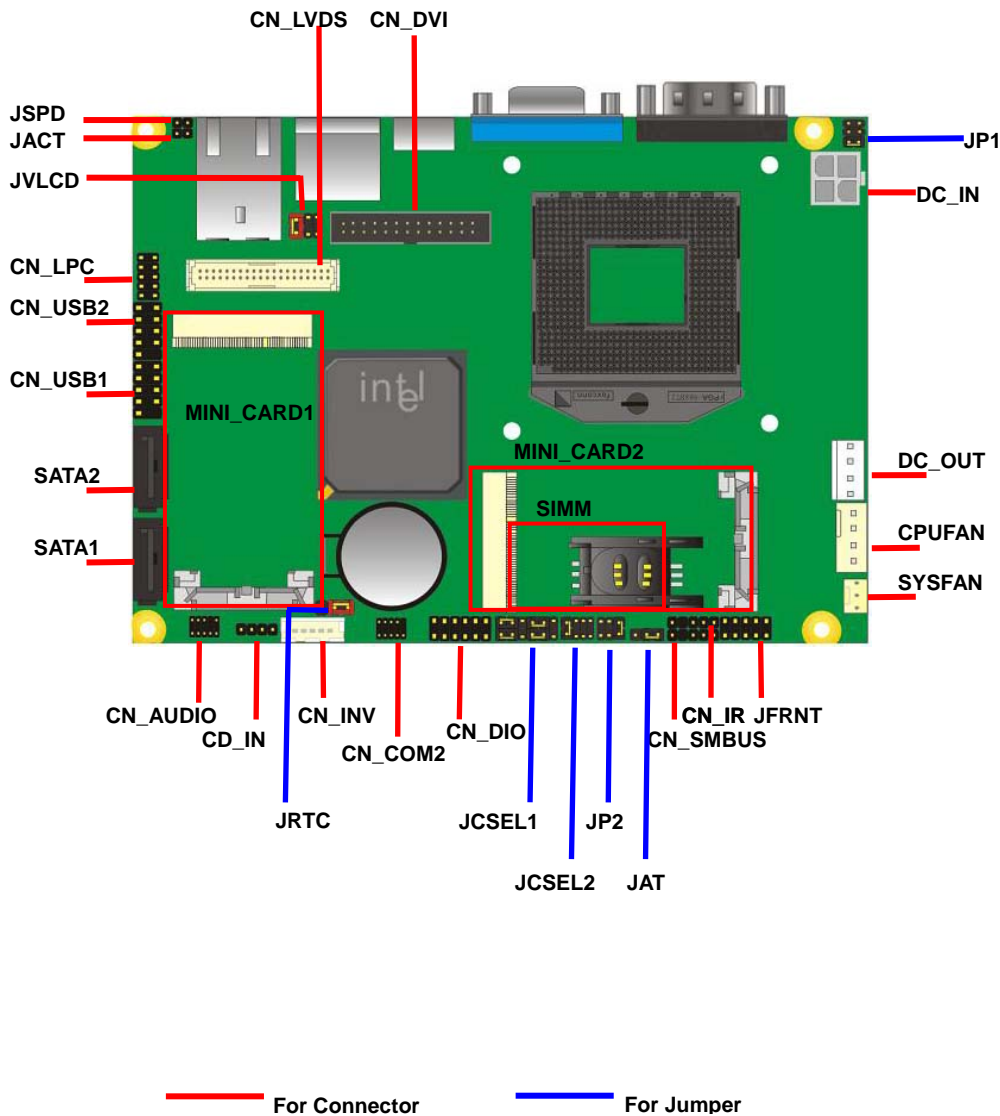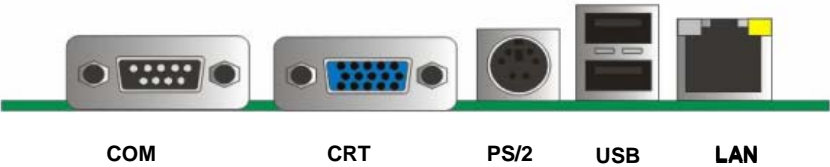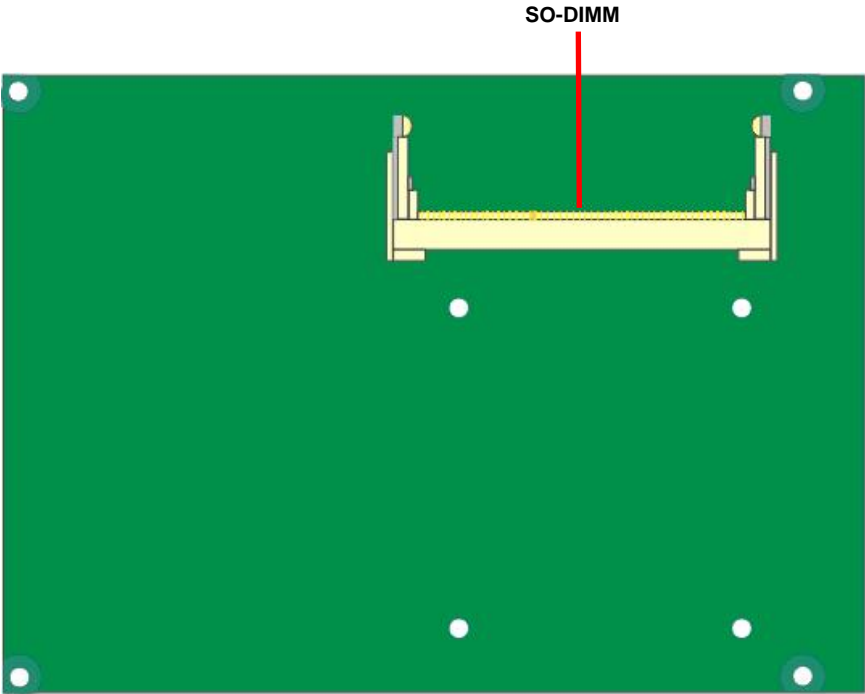CPU Cooler x 1

DVI Adapter x1, DVI Cable x1

COM PORT cable x 1

DC_IN Power Cable x 1
SATA (7P+15P)Cable x 1

Hardware Installation:

<Motherboard placement>

CN_LVDS   CN_DVI

JSPD
JACT   JP1

JVLCD   DC_IN

CN_LPC

CN_USB2

CN_USB1

MINI_CARD1

MINI_CARD2   DC_OUT

SATA2   CPUFAN

SATA1   SIMM   SYSFAN

CN_AUDIO   CN_INV   CN_IR   JFRNT
          CD_IN   CN_DIO   CN_SMBUS
                          CN_COM2

          JRTC   JCSEL1   JP2

                    JCSEL2   JAT

━━━━ **For Connector**   ━━━━ **For Jumper**

SO-DIMM

COM   CRT   PS/2   USB   LAN

<Jumper Location & Reference>

Jumper	Function
JRTC	CMOS Operating/Clear Setting
JVLCD	Panel Voltage Setting
JAT	Power mode select
JP1	Com1 Voltage Setting (For Pin 9)
JP2	Com2 Voltage Setting (For Pin 9)
JCSEL1	CN_COM2 RS-232 RS422 RS485 Setting
JCSEL2	CN_IR IrDA Setting

Jumper: **JAT**
Type: onboard 3-pin header

Power Mode	JAT
AT Mode	1-2
ATX Mode	2-3
Default setting:　ATX Mode	

1　　　　3

Jumper: **JP1/JP2 (COM1/2)**
Type: onboard 6-pin header

Power Mode	JP1/2/3/4
Pin 9 with 5V Power	1-2
Pin 9 with 12V Power	3-4
Standard COM port	5-6 **Default setting**

1　　2

5　　6

Setting RS-232 & RS-422 & RS-485 for COM2

Jumper: **JCSEL1,JCSEL2**
Type: 12-pin (6 x 2) & 8-pin (4 x 2) for set COM2 mode jumper

|	RS232	RS485	RS422	IrDA
JCSEL1				
JCSEL2				

Default: RS232

<Internal Connectors>

Connector	Function	Remark
CPU	Socket rPGA988B for PGA**988** CPU	
SO-DIMM	204 -pin DDR3 SO-DIMM socket	
SATA 1/2	7-pin Serial ATAIII connector	
DC_IN	DC 9~24V input connector	
DC_OUT	4-pin DC output connector	
CN_AUDIO	5 x 2-pin audio connector	
CD_IN	4-pin CD-ROM audio input connector	
CN_DIO	6 x 2-pin digital I/O connector	
CN_USB 1/2	5 x 2-pin USB connector	
CPUFAN	4-pin CPU cooler fan connector	
SYSFAN	3-pin system cooler fan connector	
CN_LVDS	20 x 2-pin LVDS connector	
CN_INV	5-pin LCD inverter connector	
CN_IR	5-pin IrDA connector	
CN_COM2	9-pin RS232/485/422	
CN_LPC	5 x 2-pin LPC connector	
JFRNT	10-pin front panel switch/indicator connector	
Mini-PCIE1/2	52-pin Mini-PCIE socket	
JAT	Power mode select	
JSPD	LAN Speed LED connector	
JACT	LAN Activity LED connector	

<External Connectors>

Connector	Function	Remark
COM1	DB9 Serial port connector	
CRT	DB15 VGA connector	
PS2	PS/2 keyboard and mouse connector	
USB	Dual USB 2.0 connector	
RJ45	RJ45 LAN connector	

<CPU and Memory Setup>

The board comes with the socket rPGA988 for Intel **SandyBridge** Processor, Please follow the instruction to install the CPU properly.
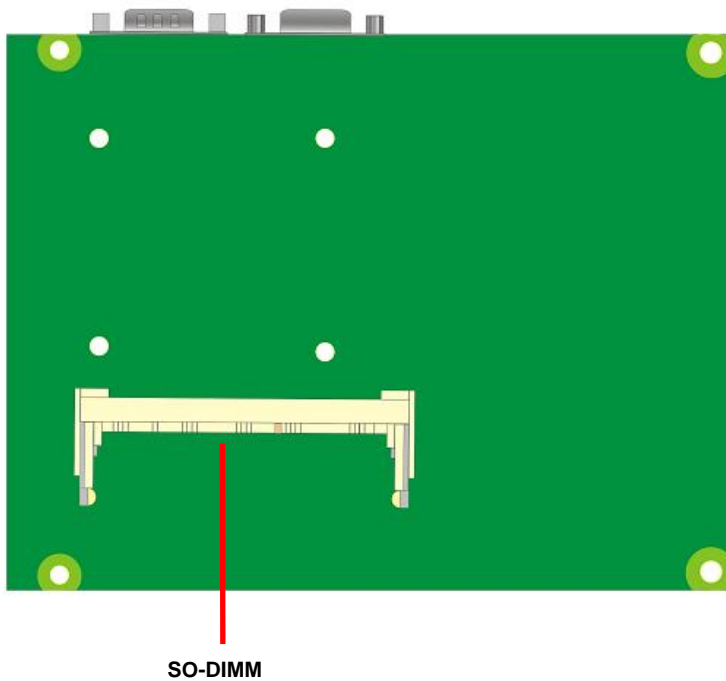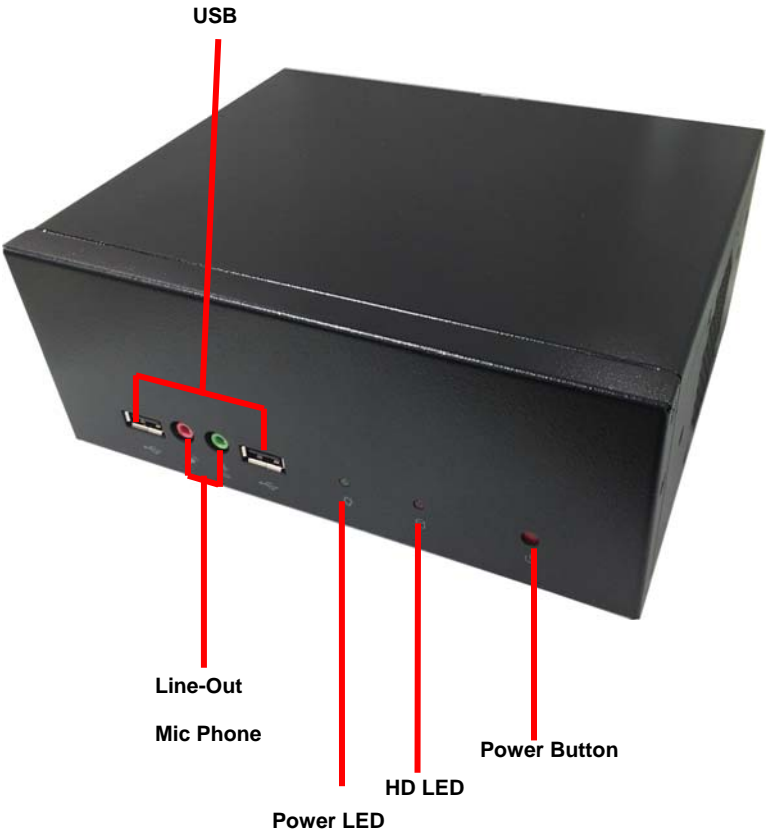

Unlock way

Socket CPU

Check point
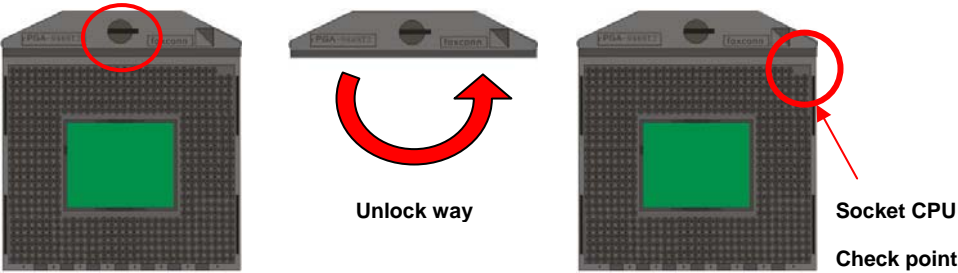
2. Follow the pin
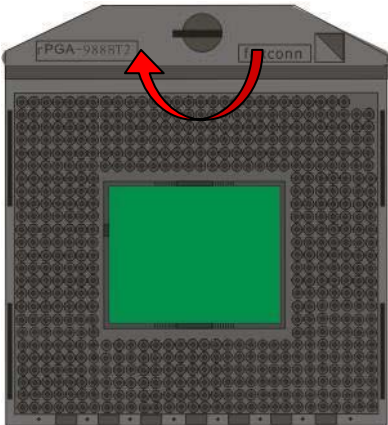
crew

3. Lock the socket

2.4.2 <Memory Setup>

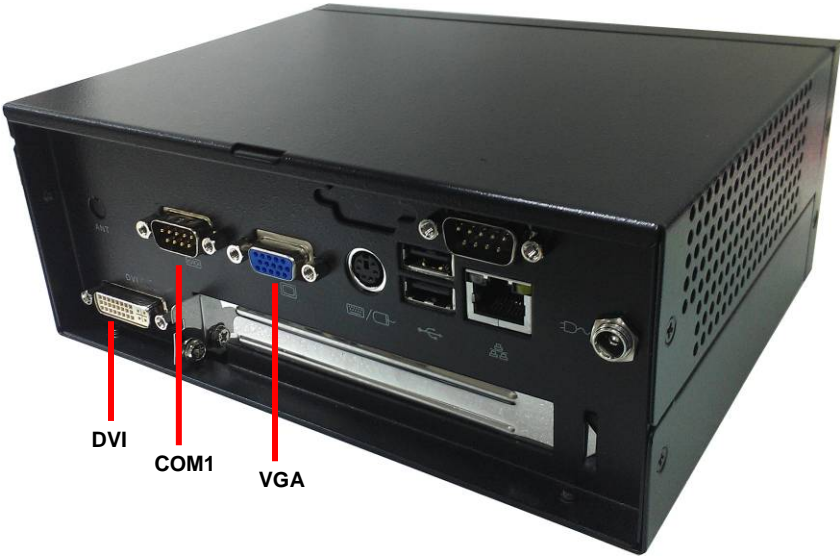The board provides 1 x 204-pin DDR3 SO-DIMM to support 800/1066MHz DDR3 memory module up to 4GB.

SO-DIMM

I/O panel:

Front:

USB

Line-Out

Mic Phone

Power LED

HD LED

Power Button

Rear panel:
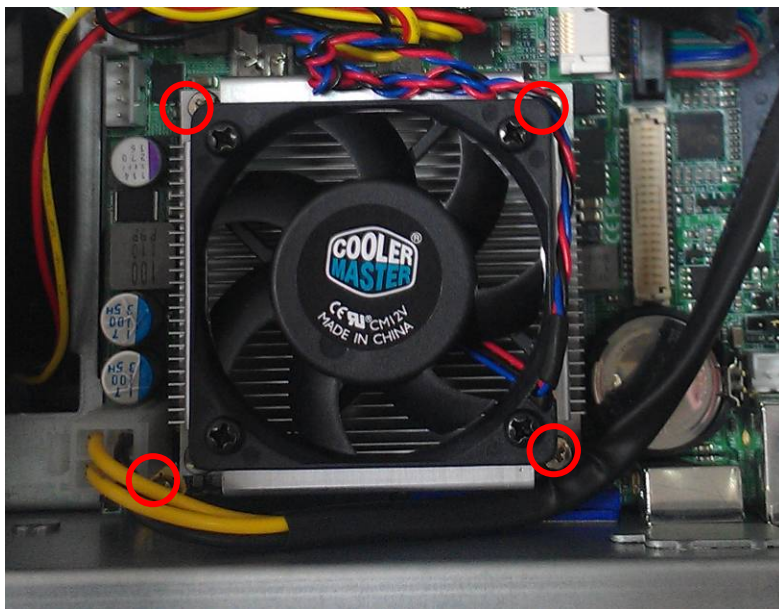

DVI

COM1

VGA

Chassis Setup procedure:

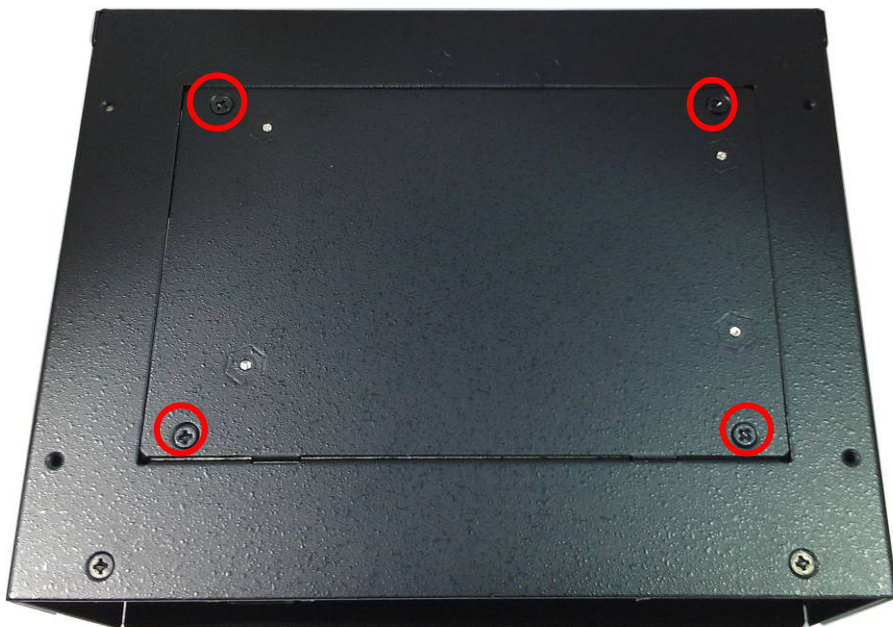**1.   Screw off as indication of the picture below.**

2.   Push the Chassis shield towards the back then open it.

3. **Turn the CPU cooler screws and then refer the page.9 to install the CPU.(After installing CPU, please turn the CPU FAN screws to tighten.)**
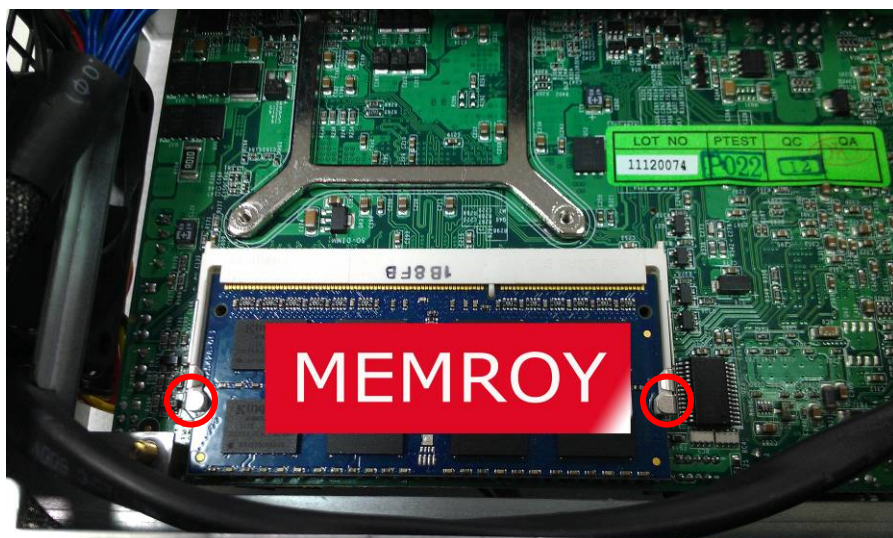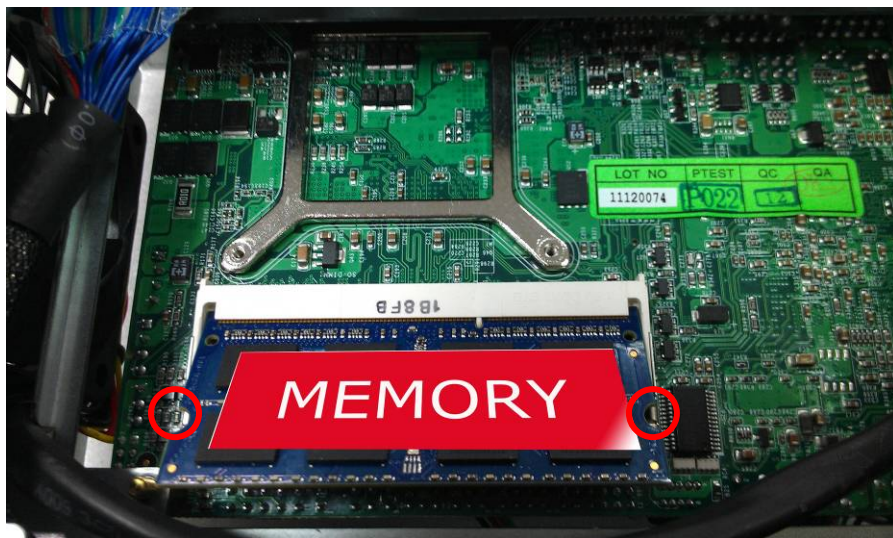

4. **Screw off as indication of the picture below.**

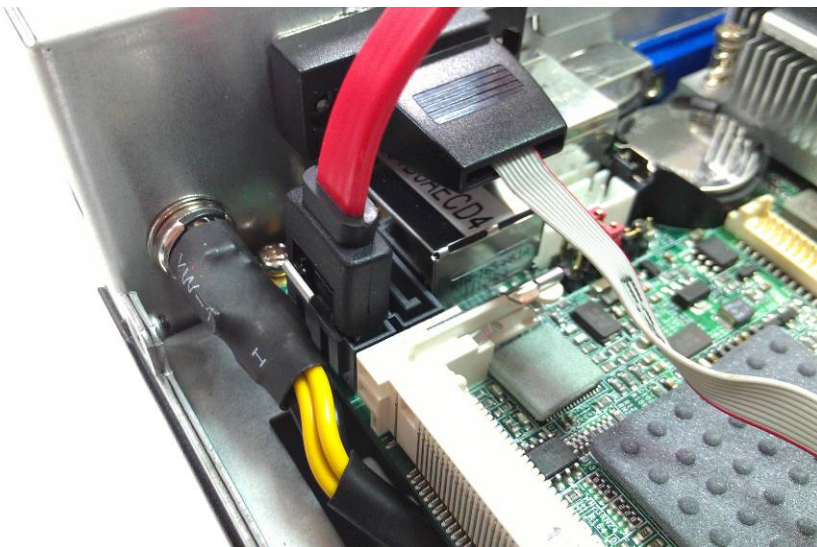**5. Insert the DDRII SO-DIMM module into the socket at 45 degree.**

Press down the module with a click sound.
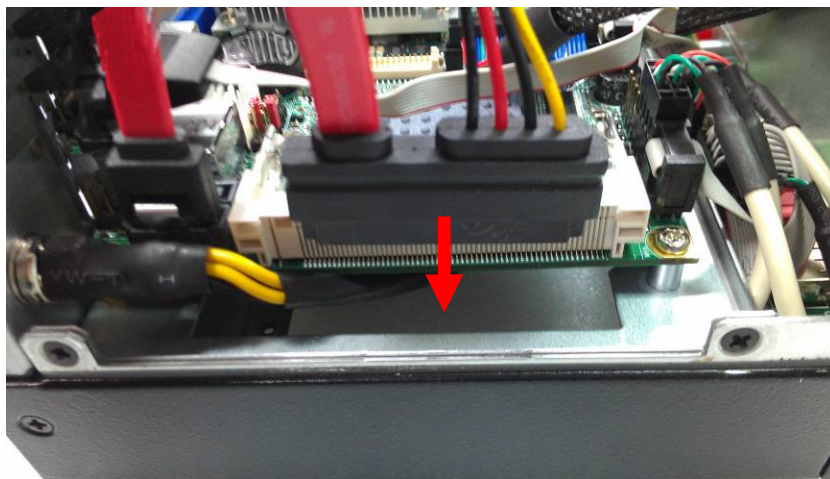
6. Put on HDD driver into HDD holder then turn the HDD drive screws to tighten.

7.   Connect SATA cable to motherboard.

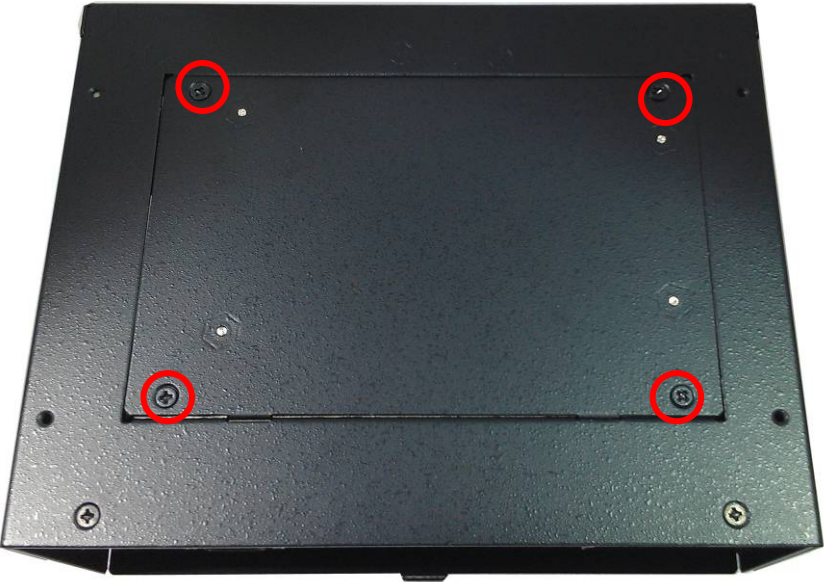**8.   Put SATA cable holder through the motherboard holder.**

9. Connect SATA cable from motherboard to the HD drive.

10. Put the Chassis shield back and screw on as indication of the picture below Turn the screws.

11. Put the top Chassis shield back and screw on as indication of the picture below.

12. Screw on as indication of the picture below.

13. Finish

Contact Information

Any advice or comment about our products and service, or anything we can help you please don't hesitate to contact with us. We will do our best to support you for your products, projects and business

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