

CMB-379

Mini Barebone system Intel High Performance Platform

Installation Guide

Edition 1.01

2025/02/07



Index

Chapter 1 < Packing List > 4

Chapter 2 < Product Specification >..... 6

 2.1< Motherboard placement >.....6

 2.2< Jumper Location & Reference >9

 2.2.1 < JAT >..... 9

 2.2.2 < JRTC >..... 9

 2.2.4 < JP1 (COM 4) & JP2 (COM 3) > 10

 2.3< Serial Port Jumper Setting > 10

 2.3.1 < CN_COM2 > 10

 2.3.2 < CN_COM3/4 > 11

 2.4<Motherboard Internal Connectors > 12

 2.5<Motherboard External Connectors > 12

 2.6< Pin Assignment > 13

 2.6.1 < IrDA Port > 13

 2.7< Indicator and Switch > 13

 2.7.1 < JFRNT > 13

 2.8< Interface >..... 14

 2.8.1 < DVI Interface > 14

 2.8.2 < Onboard Audio Interface > 15

 2.8.3 < USB2.0 Interface >..... 15

 2.9< Power Connector >..... 16

 2.9.1 < Power Input > 16

 2.9.2 < Power Output >..... 16

 2.10< I/O panel > 17

 2.10.1 < Front > 17

 2.10.2 < Rear panel > 18

Chapter 3 < Hardware Installation > 19

3.1 < Chassis Setup procedure >	19
< Memory Setup>.....	20
3.1.2 < Memory Setup >.....	20
Contact Information	26

Document Content:

- Chapter 1: Packing List
- Chapter 2: Product Specification
- Chapter 3: Hardware Installation

Chapter 1 < Packing List >

CMB-379 Chassis x 1

(Including LE-379 Motherboard)



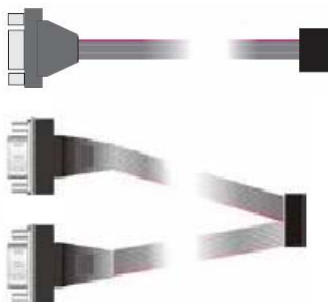
DSPD-080-12A 80W AC-DC Adapter x 1



DVI Adapter x1 & DVI Cable x1



COM PORT Cable x 2



SATA Cable x 1



SATA Power Cable x 1



AUDIO Cable x 1

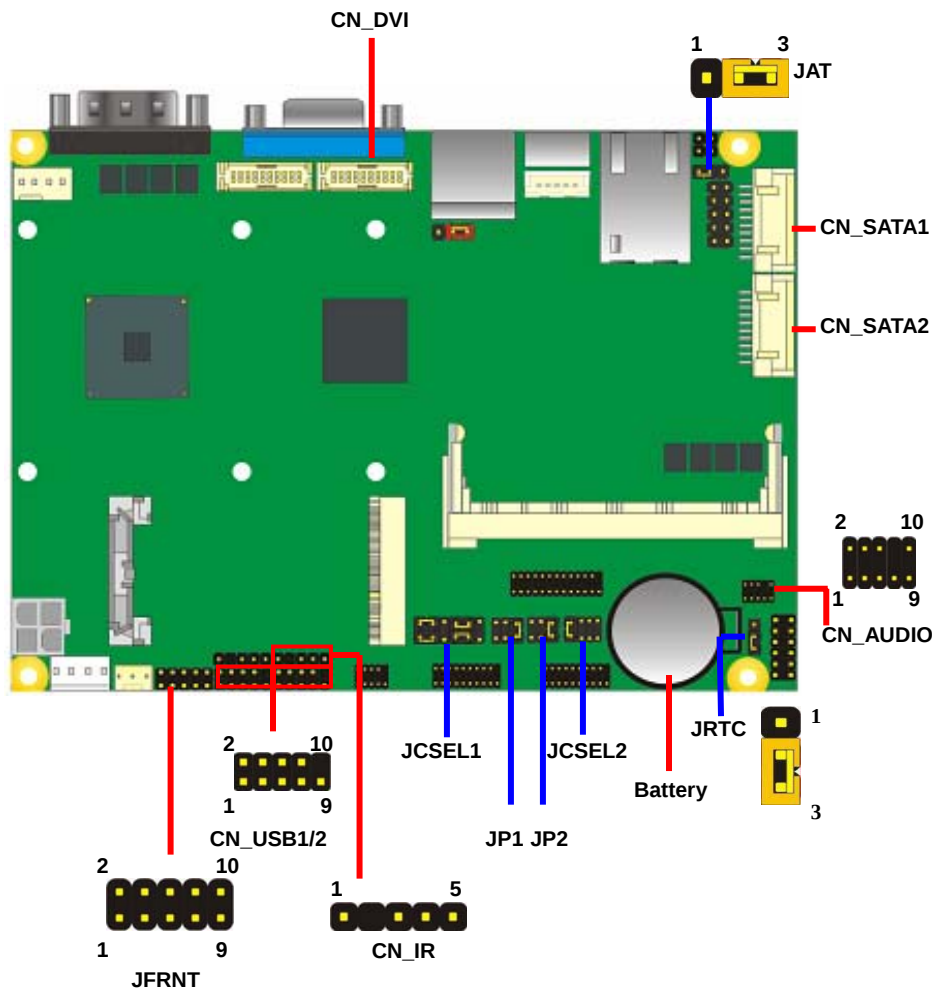


DC_IN Power Cable x 1



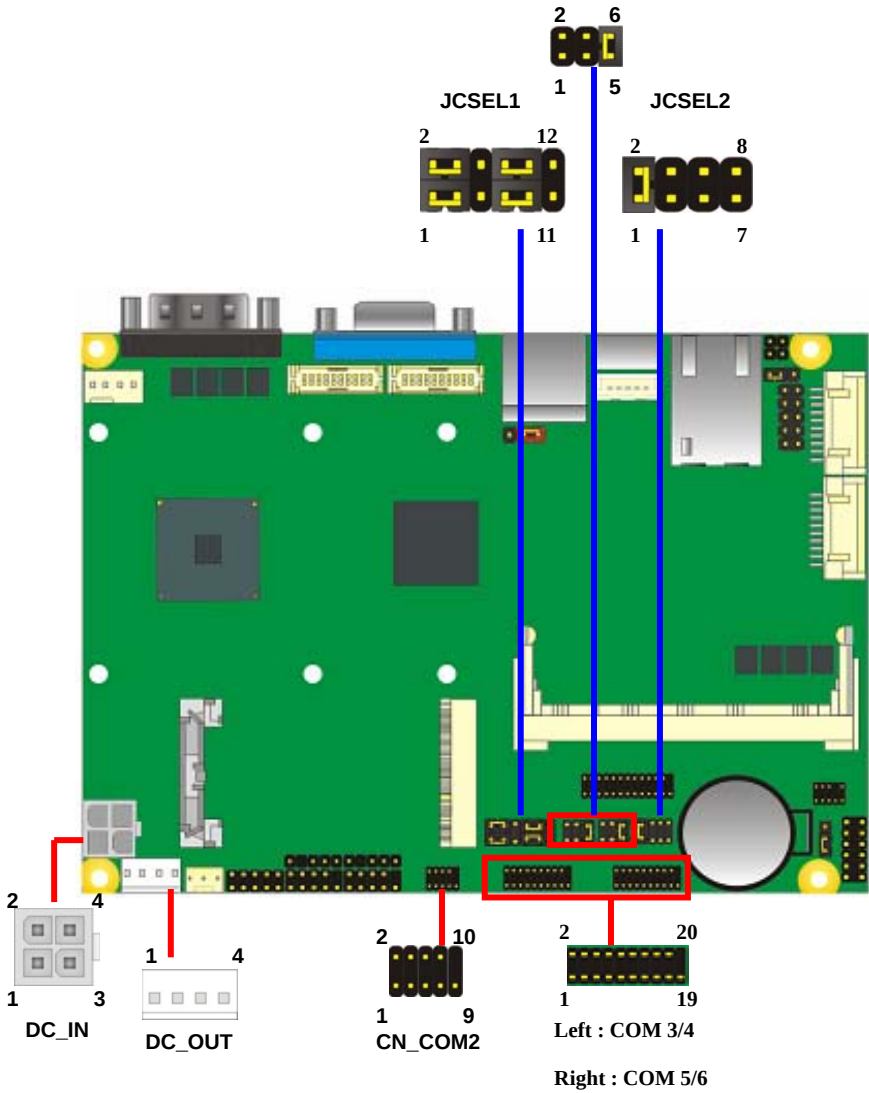
Chapter 2 < Product Specification >

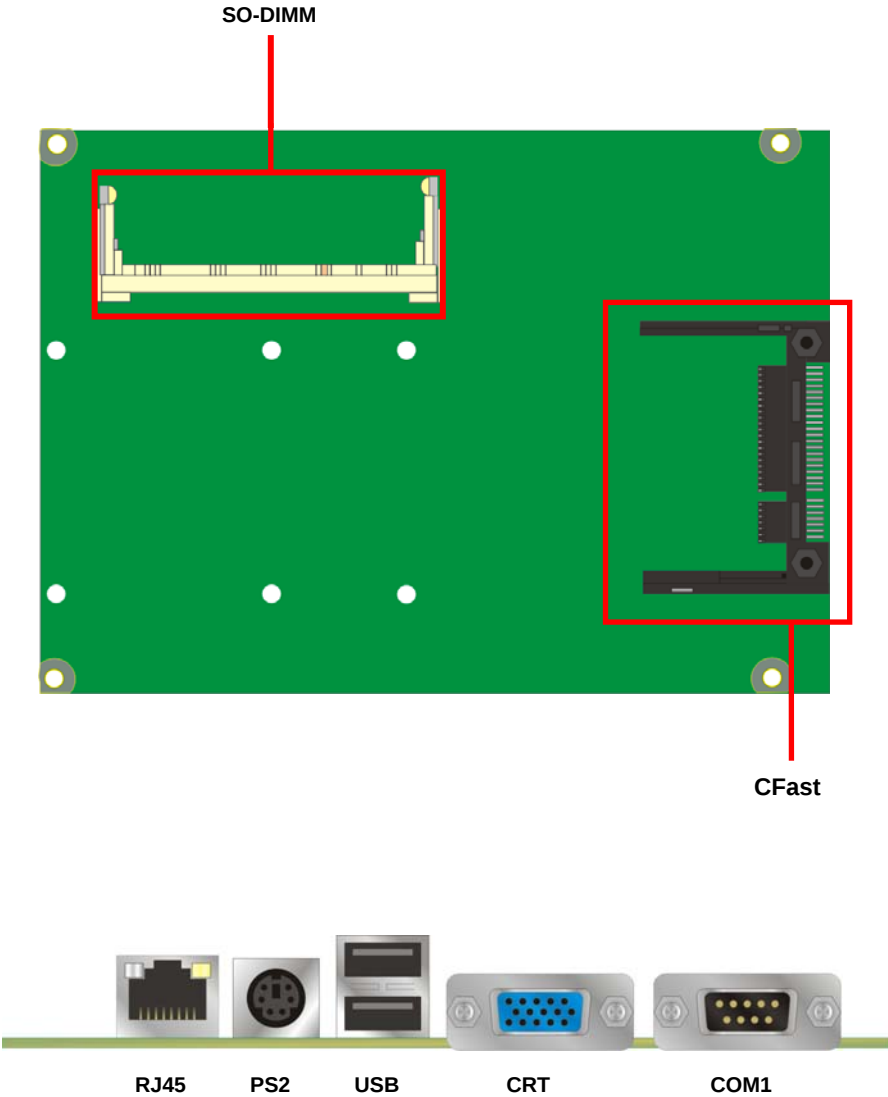
2.1< Motherboard placement >



Right : JP1

Left : JP2





2.2< Jumper Location & Reference >

Jumper	Function
JAT	AT/ATX Power mode select
JRTC	CMOS Operating/Clear Setting
JP1	Com4 Voltage Setting(For Pin 9)
JP2	Com3 Voltage Setting(For Pin 9)
JCSEL1	CN_COM2 RS-232 RS422 RS485 Setting / CN_IR IrDA
JCSEL2	Setting

2.2.1 < JAT >

Jumper: JAT

Type: onboard 3-pin header

The board has a jumper to switch AT power mode (automatic power on) or standard

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

2.2.2 < JRTC >

Jumper: JRTC

Type: onboard 3-pin header

JRTC	Mode
Clear CMOS	1-2
Normal Operation	2-3
Default setting: Normal Operation	
 1 3	

2.2.4 < JP1 (COM 4) & JP2 (COM 3) >

Jumper: JP1 (COM 4) & JP2 (COM 3)

Type: onboard 6-pin header

Power Mode	JP1
Pin9 with 5V signal	3-4
Pin9 with 12V signal	1-2
HS_RI2-(HS_RI1-)	5-6
Default setting: 5-6	



2.3< Serial Port Jumper Setting >

2.3.1 < CN_COM2 >

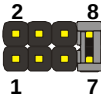
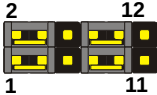
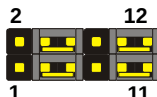
Connector: CN_COM2

Type: 10-pin (5 x 2) 1.27mm x 2.54mm-pitch header for COM2

Pin	Description	Pin	Description
1	DCD/422TX-/485-	2	RXD/422TX+/485+
3	TXD/422RX+	4	DTR/422RX-
5	GND	6	MDSR2-
7	MRTS2-	8	MCTS2-
9	MRI2-	10	N/C

The board provides two RS232 serial ports, with jumper selectable RS422/485/IrDA for COM2.

< Setting RS-232, RS-422, RS-485 & IrDA >

Function	JCSEL1	JCSEL2
IrDA		
RS-422		
RS-485		
RS-232		

2.3.2 < CN_COM3/4 >

Connector: CN_COM3/4

Type: 20-pin (10 x 2) 1.27mm x 2.54mm-pitch header for COM3/4

Pin	Description	Pin	Description
1	HS_DCD1-	2	HS_RXD1
3	HS_TXD1	4	HS_DTR1-
5	GND	6	HS_DSR1-
7	HS_RTS1-	8	HS_CTS1-
9	HS_RI1-(JP2)	10	N/C
11	HS_DCD2-	12	HS_RXD2
13	HS_TXD2	14	HS_DTR2-
15	GND	16	HS_DSR2-
17	HS_RTS2-	18	HS_CTS2-
19	HS_RI2-(JP1)	20	N/C

2.4<Motherboard Internal Connectors >

Connector	Function	Remark
SO-DIMM	204 -pin DDR3 SO-DIMM SDRAM slot	
CN_SATA	10-pin SATA Cable connector	
CFast	CFast Card socket	
MINI_CARD	PCIE mini card socket	
MINI_PCI	mini PCI socket	
CN_LVDS	20 -pin LVDS connector	
CN_DVI	20 -pin LVDS connector	
CN_INV	5-pin LCD inverter connector	
CN_USB1/2	5 x 2-pin USB connector	
CN_AUDIO	5 x 2-pin audio connector	
CN_COM2	5 x 2-pin com connector	
CN_COM3/4	10 x 2-pin com connector	
CN_COM5/6	10 x 2-pin com connector	
CN_IR	5-pin IrDA connector	
CN_DIO	6 x 2-pin digital I/O connector	
JFRNT	10-pin switch/indicator connector	
CPUFAN	4-pin CPU cooler fan connector	
SYSFAN	3-pin system cooler fan connector	

2.5<Motherboard External Connectors >

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

2.6< Pin Assignment >

2.6.1 < IrDA Port >

Connector: **CN_IR**

Type: 5-pin header for SIR Port

Pin	Description
1	VCC
2	N/C
3	IRRX
4	Ground
5	IRTX

2.7< Indicator and Switch >

2.7.1 < JFRNT >

The **JFRNT** provides front control panel of the board, such as power button, reset and beeper, etc. Please check well before you connecting the cables on the chassis.

Connector: **JFRNT**

Type: onboard 10-pin (2 x 5) 2.54-pitch header

Function	Signal	PIN		Signal
Power	PWRBT-	1	2	PWRBT+
Speaker	SPK-	3	4	SPK+
HDD LED	HLED-	5	6	HLED+
Power LED	GND	7	8	PWLED+
Reset	Reset-	9	10	GND

2.8< Interface >

2.8.1 < DVI Interface >

The board also comes with a DVI interface. Supports up to 1920 x 1080 (WUXGA) of resolution.

Type: onboard 20-pin connector for DVI connector

Connector model: HIROSE DF13-20DP-1.25V

Pin Number	Assignment	Pin Number	Assignment
1	+5V	2	+3.3V
3	HPD	4	Ground
5	TMDSTX0N	6	TMDSTX0P
7	Ground	8	TMDSTX1N
9	TMDSTX1P	10	Ground
11	TMDSTX2N	12	TMDSTX2P
13	Ground	14	TMDSTXCN
15	TMDSTXCP	16	Ground
17	DVI_DA	18	DVI_SL
19	AUXN	20	AUXP

2.8.2 < Onboard Audio Interface >

The board provides the onboard high definition audio with Realtek ALC888

Connector: CN_AUDIO

Type: 10-pin (2 x 5) 1.27mm x 2.54mm-pitch header

Pin	Description	Pin	Description
1	MIC2_L	2	AGND
3	MIC2_R	4	AVCC
5	FRO_R	6	MIC2_JD
7	F_IO_SEN	8	N/C
9	FRO_L	10	LINE2_JD

2.8.3 < USB2.0 Interface >

Based on Intel Nm10 FCH, the board provides 6 USB2.0 ports. The USB2.0 interface provides up to 480Mbps of transferring rate.

Interface	USB2.0
Controller	NM10
Transfer Rate	Up to 480Mb/s
Output Current	500mA

Connector: CN_USB

Type: 10-pin (5 x 2) header for USB Port

Pin	Description	Pin	Description
1	VCC	2	VCC
3	D0-	4	D1-
5	D0+	6	D1+
7	Ground	8	Ground
9	Ground	10	N/C

PS: The USB2.0 will be only active when you connecting with the USB2.0 devices, if you insert an USB1.1 device, the port will be changed to USB1.1 protocol automatically. The transferring rate of USB2.0 as 480Mbps is depends on device capacity, exact transferring rate may not be up to 480Mbps.

2.9< Power Connector >

2.9.1 < Power Input >

Connector: DC_IN

Type: 4-pin header

Pin	Description	Pin	Description
1	Ground	4	+12V
2	Ground	3	+12V

Remark: DC input voltage range 5~24V



2.9.2 < Power Output >

Connector: DC_OUT

Type: 4-pin connector for +5V/+12V **output**

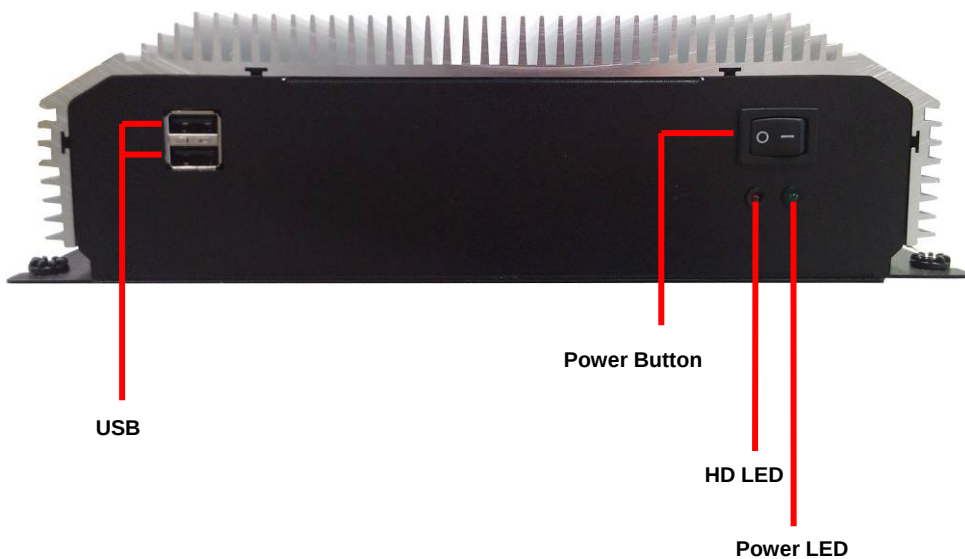
Pin	Description	Pin	Description	Pin	Description	Pin	Description
1	+12V	2	Ground	3	Ground	4	+5V

Note: Maximum output current 12V/1A, 5V/1A

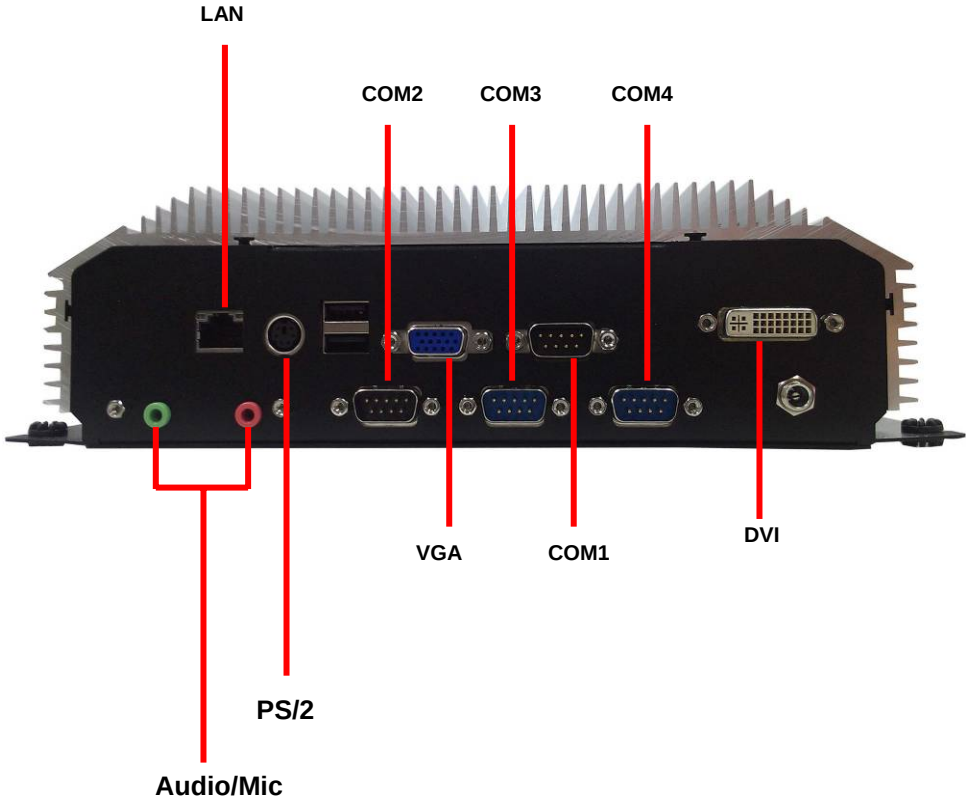


2.10< I/O panel >

2.10.1 < Front >



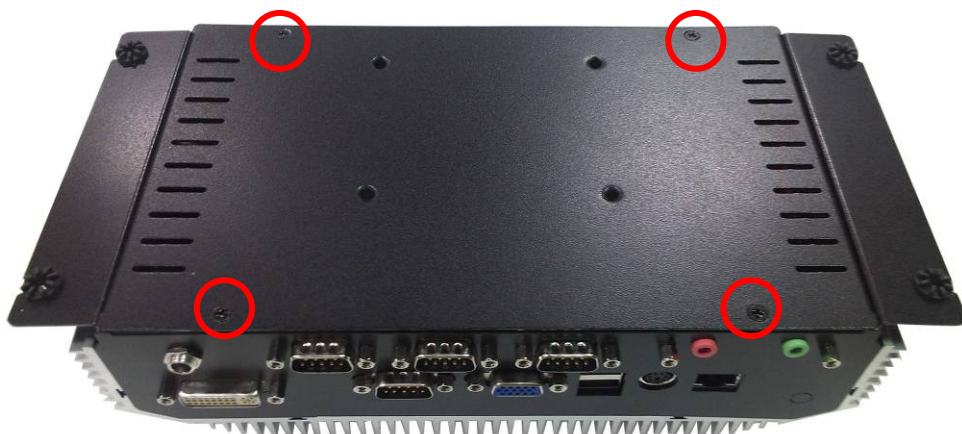
2.10.2 < Rear panel >



Chapter 3 < Hardware Installation >

3.1 < Chassis Setup procedure >

1. Screw off as indication of the picture below, Push the Chassis shield towards the back then open it.



< Memory Setup>

3.1.2 < Memory Setup >

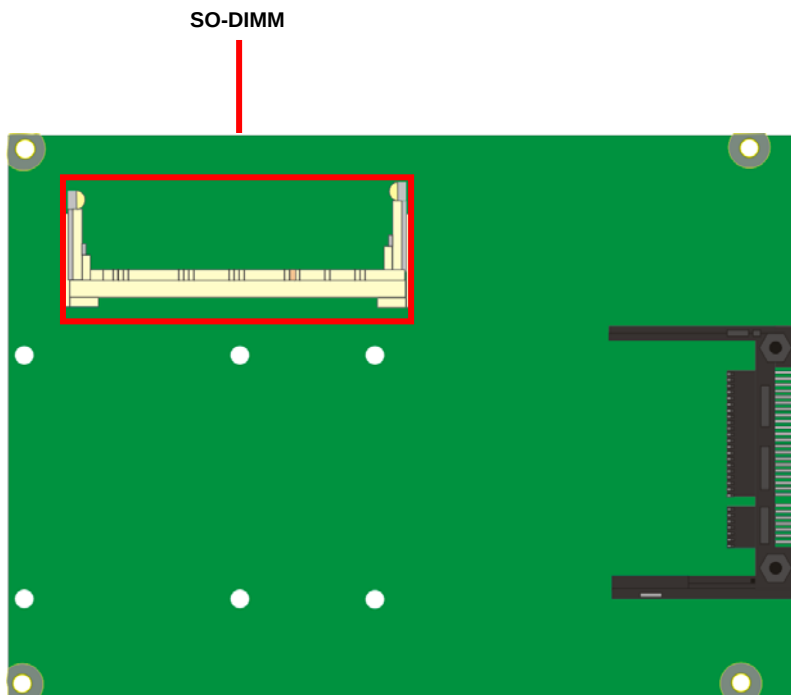
Non-ECC, unbuffered memory is supported only.

The board provides one 204-pin DDR3 SO-DIMM to support DDR3 800/1066 memory modules up to 4GB.

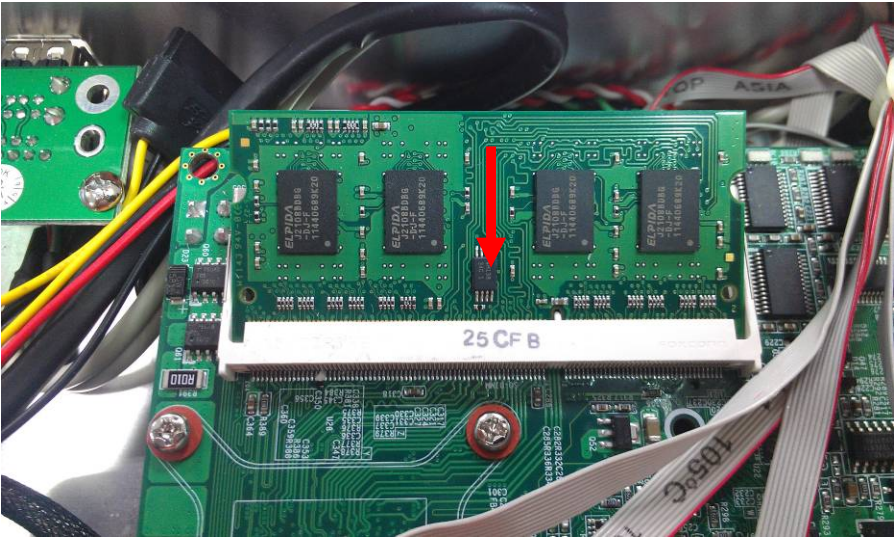
Suggestion:

DDR3 SO-DIMM Modules:

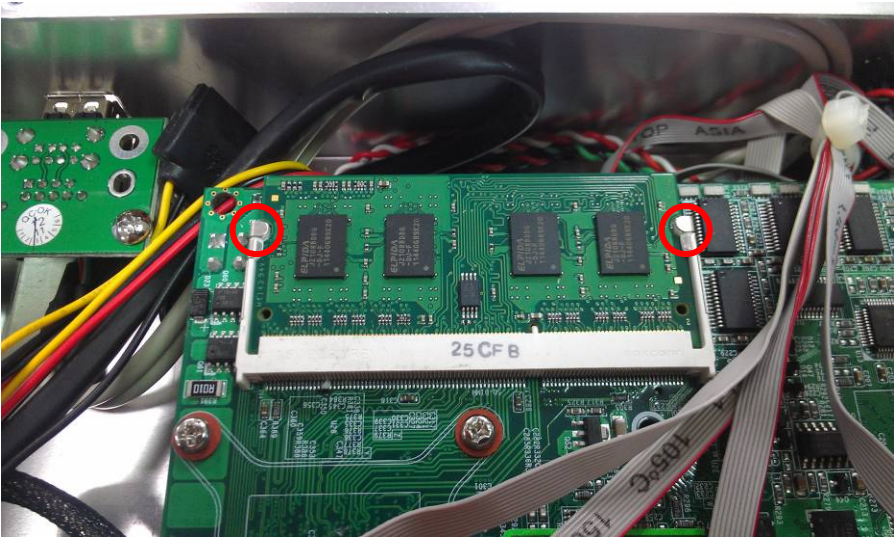
- Raw Card C = Single-sided x 8
- Raw Card F = Double-sided x 8



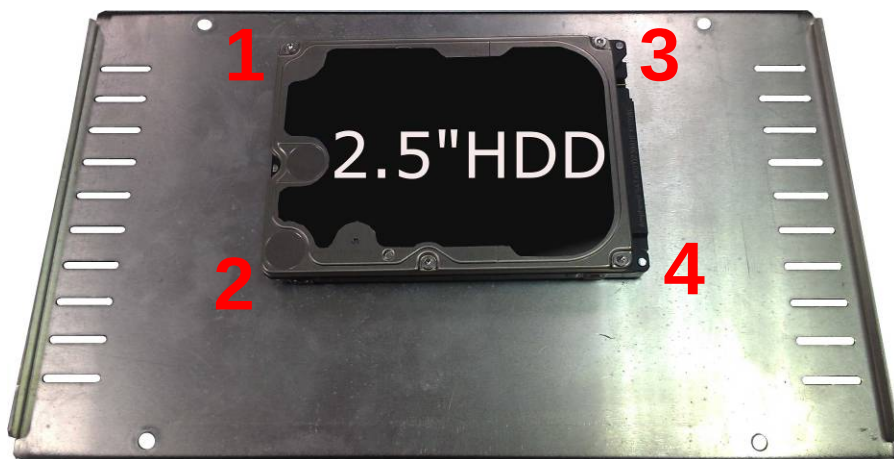
(1). Insert the DDRII SO-DIMM module into the socket at 45 degree.



(2). Press down the module with a click sound.



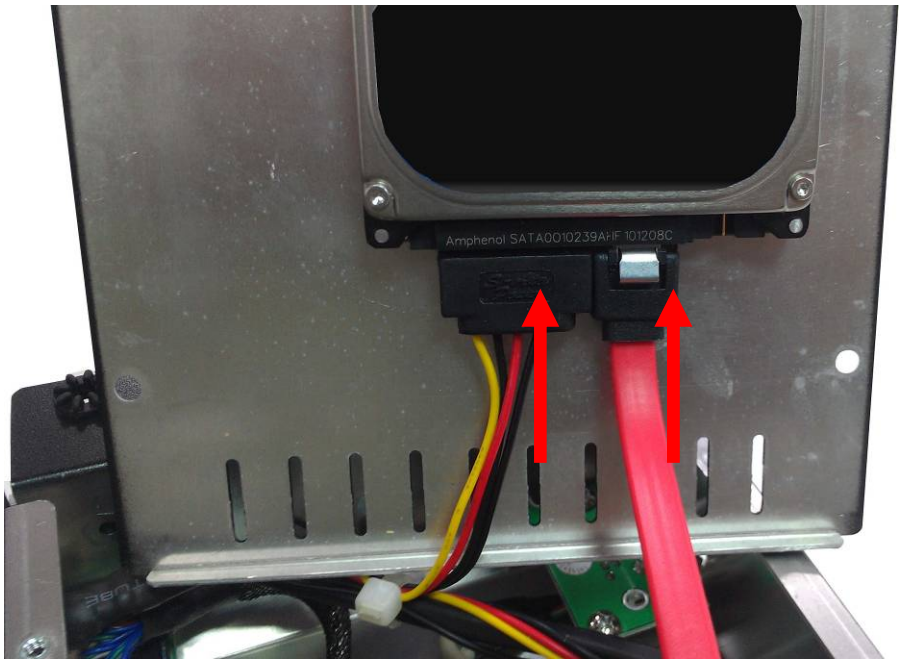
(3). Put on HDD driver into HDD holder.



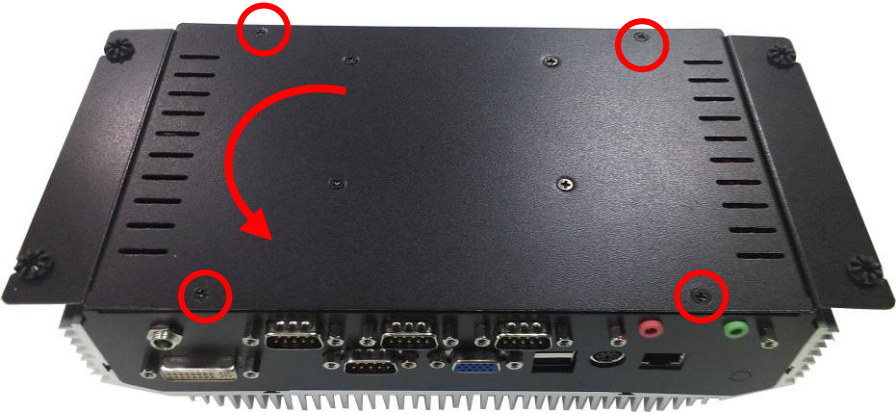
(4). Then turn the HDD driver screws to tighten with Chassis shield towards the back.



(5). Connect SATA cable and SATA Power cable from motherboard to the HD drive.



(6). the Chassis shield back and screw on as indication of the picture below Turn the screws.



6. 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

Taiwan Commate Computer Inc.

Address	19F, No. 94, Sec. 1, Xintai 5th Rd., Xizhi Dist New Taipei City, Taiwan
TEL	+886-2-26963909
FAX	+886-2-26963911
Website	http://www.commell.com.tw
E-Mail	info@commell.com.tw (General Information) tech@commell.com.tw (Technical Support)
Facebook	https://www.facebook.com/pages/Taiwan-Commate-Computer-Inc/547993955271899
Twitter	https://twitter.com/Taiwan_Commate

Commell is a brand name of Taiwan Commate Computer Inc.