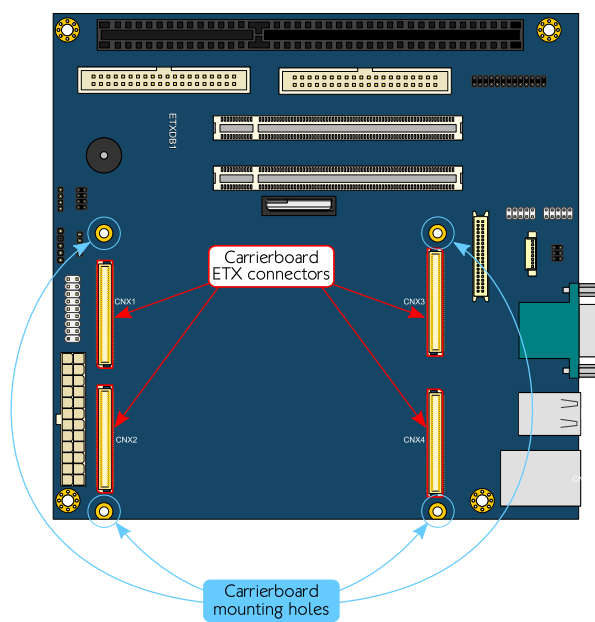


1

Mounting VIA ETX-8X90 onto the ETXDB1 carrier board

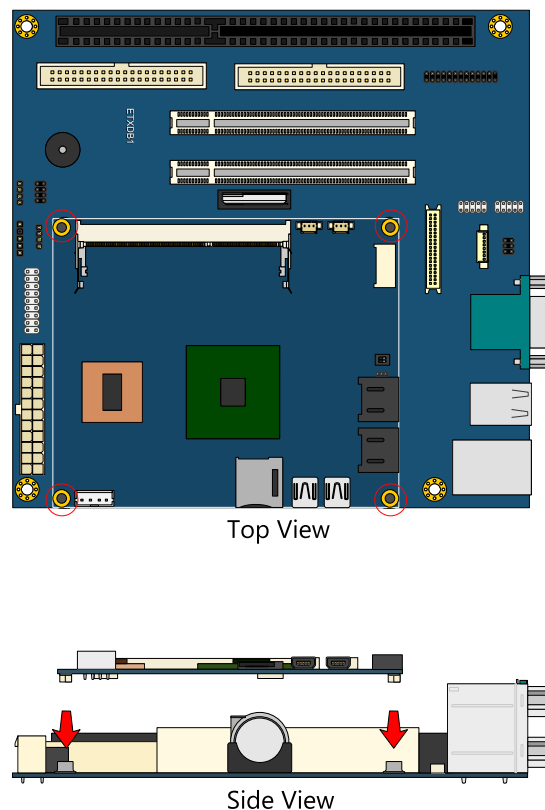
Step 1

Align the four ETX connectors and mounting hole of the VIA ETX-8X90 module into the ETX connectors and mounting holes on the ETXDB1 carrier board.



Step 2

Gently press down the VIA ETX-8X90 module until the four ETX connectors have been fully inserted into the ETX connectors on the ETXDB1 carrier board.

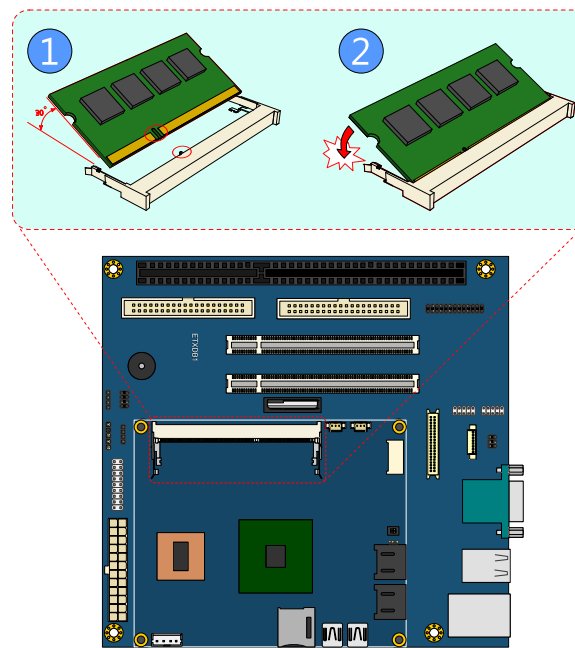


Step 3

Align the notch on the memory module with its counterpart on the SODIMM slot, and then insert the memory module at a 30° angle.

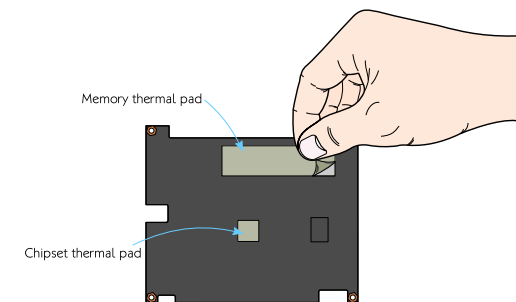
Step 4

Push down until the memory module snaps into place. The memory slot has two locking mechanisms that will click once the memory module has been fully inserted.



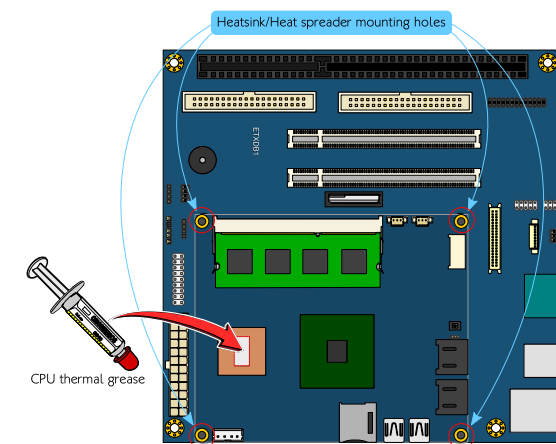
Step 5

Flip over the heatsink/heat spreader. Remove the plastic cover of the thermal pad of the memory and chipset.



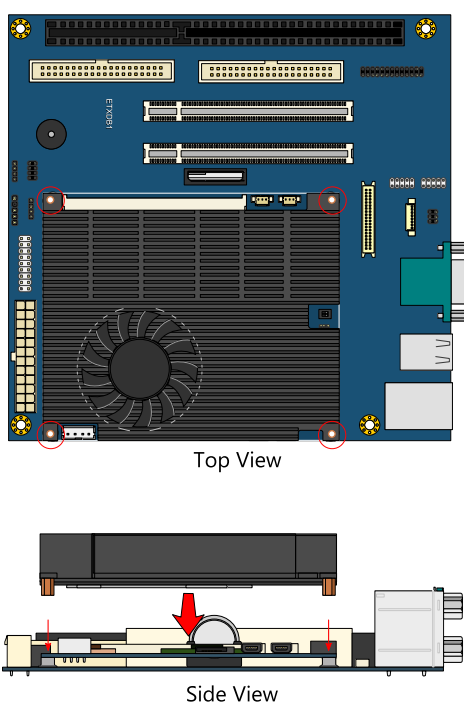
Step 6

Apply the thermal grease/paste onto the surface of the CPU. Then align the heatsink/heat spreader over the mounting holes on the VIA ETX-8X90 module.



Step 7

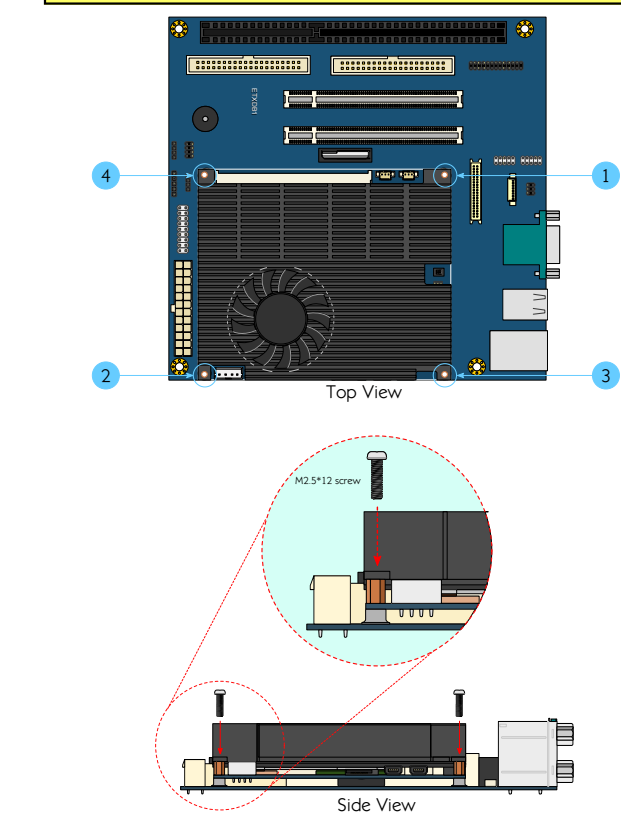
Gently install the heatsink/heat spreader. Make sure to install it in proper orientation. The thermal pads underneath the heatsink/heat spreader should position above the memory and chipset respectively.



Step 9

Secure the VIA ETX-8X90 module with the heatsink/heat spreader by screwing and tightening four M2.5*12 screws in sequence (torque is 2.5~2.6 kgfcm).

Note: Be sure to follow the sequence shown below when tightening the screws, otherwise it may cause damage to the device.



Step 8

Connect the CPU fan jack to the fan connector (FAN1).

VIA ETX-8X90 Module Switch & Jumper

Clear CMOS Jumper

Clear CMOS setting	Pin 1	Pin 2	Pin 3
Normal Operation (default)	Short	Short	Open
Clear CMOS	Open	Short	Short

HDD Selector Switch

IDE1 + SATA2 HDD setting	Switch 1	Switch 2
IDE1 HDD not install	On	N/A
IDE1 HDD install	Off	N/A
IDE1 + IDE2 HDD setting	Switch 1	Switch 2
IDE1 and IDE2 HDD not install	On	On
IDE1 HDD not install and IDE2 HDD install	On	Off
IDE1 HDD install and IDE2 HDD not install	Off	On
IDE1 and IDE2 HDD install	Off	Off

Notes:
 1. The IDE1 + SATA2 configuration is the default setting.
 2. The IDE1 + IDE2 (option 1) or SATA1 + SATA2 (option 2) configurations are manufacturing options.
 3. The HDD Selector Switch (DIPSW1) is not applicable to SATA HDD configuration.

ETXDB1 Carrier board Pin headers Definition and Jumpers Settings

Front Audio Pin Header

Pin	Signal	Pin	Signal
1	AUXAR	2	AGND
3	AUXAL	4	MICIN
5	SNDR	6	NC
7	SNDL	8	AGND

Serial Infrared Pin Header

Pin	Signal
1	+5V
2	Key
3	IRRX
4	GND
5	IRTX

PC Pin Header

Pin	Signal
1	+5V / +3V (optional)
2	CLK
3	DAT
4	GND

SMBus Pin Header

Pin	Signal
1	+3V
2	CLK
3	DAT
4	GND

Front Panel Pin Header

Pin	Signal	Pin	Signal
1	Power LED+	2	+5V
3	Power LED+	4	HDD LED-
5	Power LED-	6	Power button
7	+5V	8	GND
9	NC	10	Reset
11	NC	12	GND
13	Speaker-	14	+5V
15	Key	16	NC

LPT Pin Header

Pin	Signal	Pin	Signal
1	-STB	2	-AFD
3	D0	4	-ERR
5	D1	6	-INIT
7	D2	8	-SLIN
9	D3	10	GND
11	D4	12	GND
13	D5	14	GND
15	D6	16	GND
17	D7	18	GND
19	-ACK	20	GND
21	BUSY	22	GND
23	PE	24	GND
25	SCLT	26	Key

Keyboard & Mouse Pin Header

Pin	Signal	Pin	Signal
1	+5VSUS	2	+5VSUS
3	NC	4	Key
5	GND	6	GND
7	KB_DT	8	MS_DT
9	KB_CK	10	MS_CK

COM Pin Header

Pin	Signal	Pin	Signal
1	DCD2-	2	RXD2-
3	TXD2-	4	DTR2-
5	GND	6	DSR2-
7	RTS2	8	CTS2
9	RI2	10	Key

Backlight and Panel Power Jumper

Backlight voltage setting	Pin 1	Pin 3	Pin 5
+12V	Short	Short	Open
+5V	Open	Short	Short
Panel voltage setting	Pin 2	Pin 4	Pin 6
+3.3V	Short	Short	Open
+5V	Open	Short	Short

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