



P/N: 15G065079100AK V1.0

# Quick Installation Guide E3C236D2I / E3C232D2I



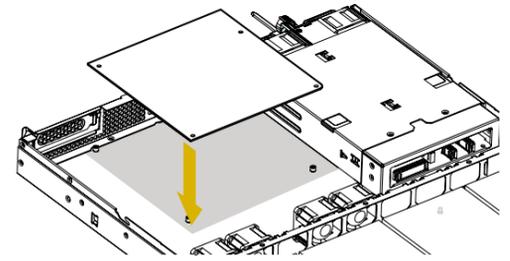
The server board User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

Take note of the following precautions before you install server board components or change any server board settings.

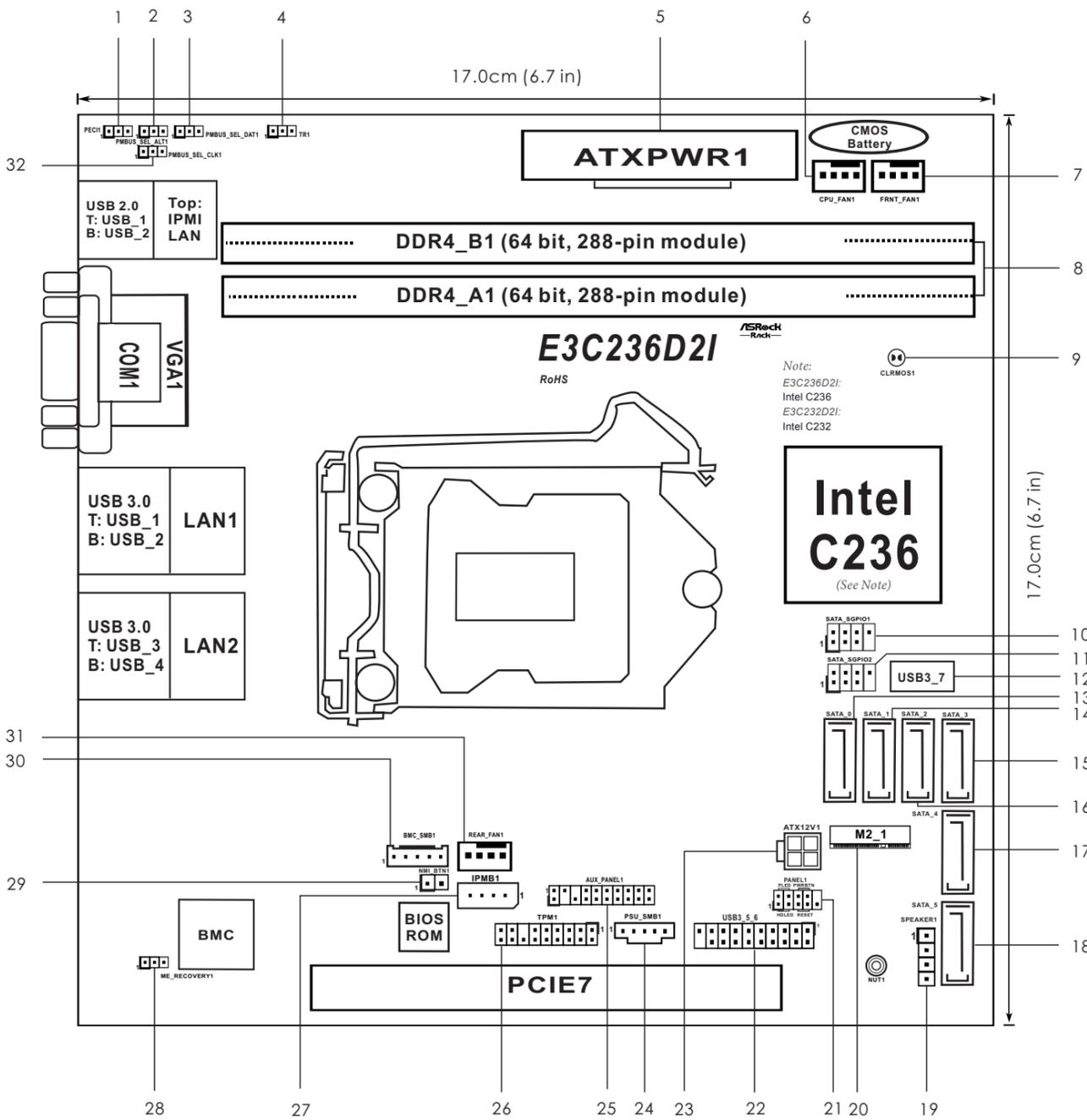
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place your server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle the components.
3. Hold components by the edges and do not touch the ICs.
4. Whenever you uninstall any component, place it on a grounded anti-static pad or in the bag that comes with the component.
5. When placing screws into the screw holes to secure the server board to the chassis, please do not over-tighten the screws! Doing so may damage the server board.

## 1 Install the Server Board

- 1 Insert the server board into the chassis.
- 2 Affix the screws clockwise into the mounting holes in all of the corners of the server board.  
Do not over-tighten the screws

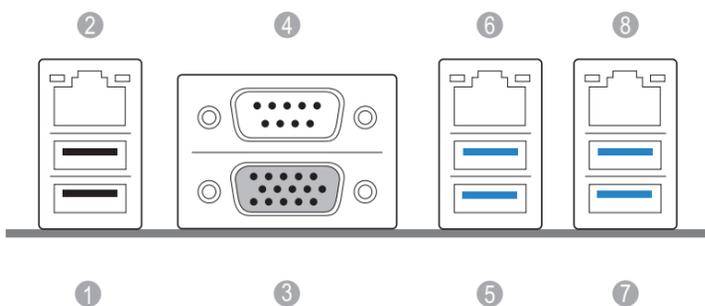


## 2 Motherboard Layout

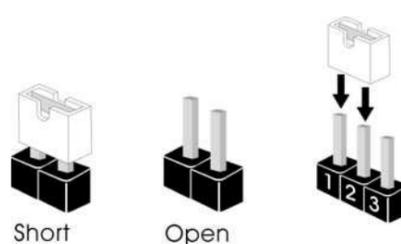


No.	Description
1	CPU PECI Mode Jumper (PECI1)
2	PMBUS Mode Jumper (PMBUS_SEL_ALT1)
3	PMBUS Mode Jumper (PMBUS_SEL_DAT1)
4	Thermal Sensor Header (TR1)
5	ATX Power Connector (ATXPWR1)
6	CPU Fan Connector (CPU_FAN1)
7	Front Fan Connector (FRNT_FAN1)
8	2 x 288-pin DDR4 DIMM Slots (DDR4_A1, DDR4_B1, Blue)
9	Clear CMOS Pad (CLRMOS1)
10	SATA SGPIO Connector (SATA_SGPIO1)
11	SATA SGPIO Connector (SATA_SGPIO2)
12	E3C236D2I: Vertical Type A USB 3.0 (USB3_7) E3C232D2I: Vertical Type A USB 2.0 (USB3_7)
13	SATA3 Connector (SATA_0)
14	SATA3 Connector (SATA_1)
15	SATA3 Connector (SATA_3)
16	SATA3 Connector (SATA_2)
17	SATA3 Connector (SATA_4)
18	SATA3 Connector (SATA_5)
19	Speaker Header (SPEAKER1)
20	M.2 Slot (M2_1)* (supports M.2 module type 2230)
21	System Panel Header (PANEL1)
22	USB 3.0 Header (USB3_5_6)
23	ATX 12V Power Connector (ATX12V1)
24	PSU SMBus (PSU_SMB1)
25	Auxiliary Panel Header (AUX_PANEL1)
26	TPM Header (TPM1)
27	Intelligent Platform Management Bus header (IPMB1)
28	ME Recovery Jumper (ME_RECOVERY1)
29	Non Maskable Interrupt Button (NMI_BTN1)
30	BMC SMBus Header (BMC_SMB1)
31	Rear Fan Connector (REAR_FAN1)
32	PMBUS Mode Jumper (PMBUS_SEL_CLK1)

## 3 I/O Panel



## 4 Jumper Cap On/Off



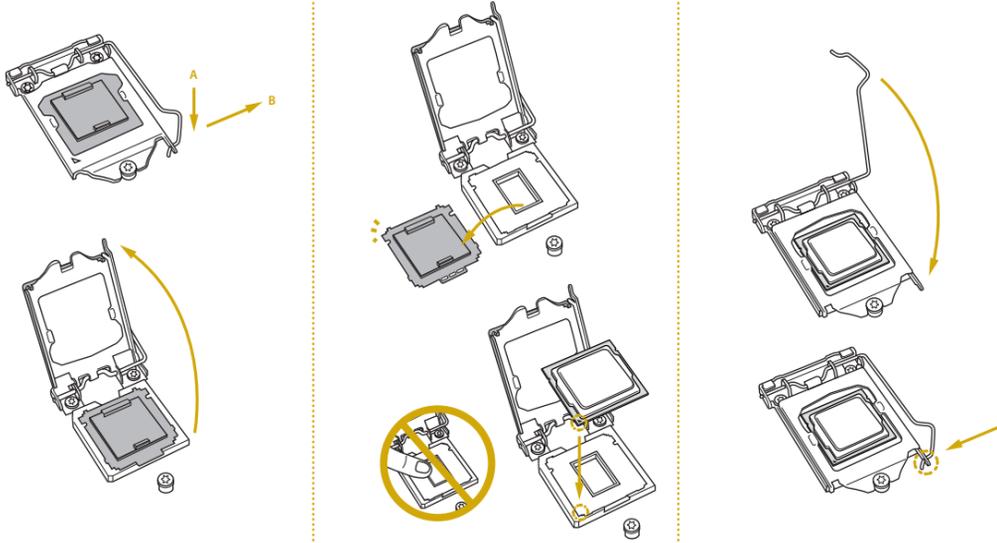
When the jumper cap is placed on the pins, the jumper is "Short". If no jumper cap is placed on the pins, the jumper is "Open".

The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when a jumper cap is placed on these 2 pins.

No.	Description	No.	Description
1	USB 2.0 Ports (USB_1_2)	5	USB 3.0 Ports (USB3_1_2)
2	LAN RJ-45 Port (IPMI_LAN)	6	LAN RJ-45 Port (LAN1)
3	VGA Port (VGA1)	7	USB 3.0 Ports (USB3_3_4)
4	Serial Port (COM1)	8	LAN RJ-45 Port (LAN2)

## 5 Install the Processor

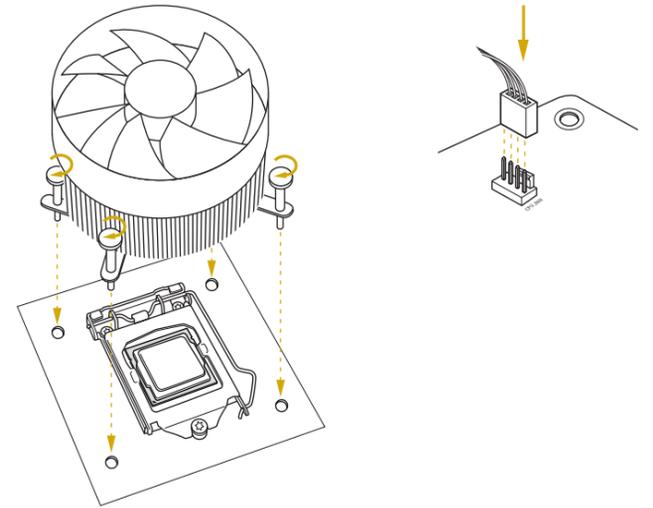
- 1 Open the socket levers and the CPU socket cover. Remove the CPU protection cap.
- 2 Install the processor and close the socket cover.
- 3 Close the socket levers.



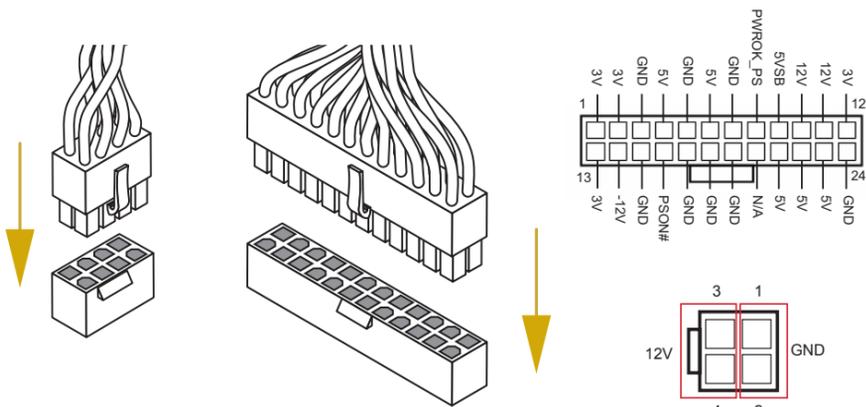
We recommend using the CPU Installation tool to avoid CPU pin-bent problem.

## 6 Install the CPU Fan and Heatsink

- 1 Apply the thermal grease. Install the CPU fan and heatsink and secure the screws.
- 2 Connect the CPU fan to the CPU FAN connector.

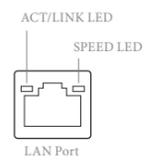


## 7 Install the Power Cables



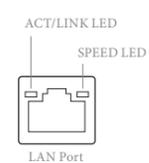
## 8 LAN Port LED Indications

### IPMI LAN Port



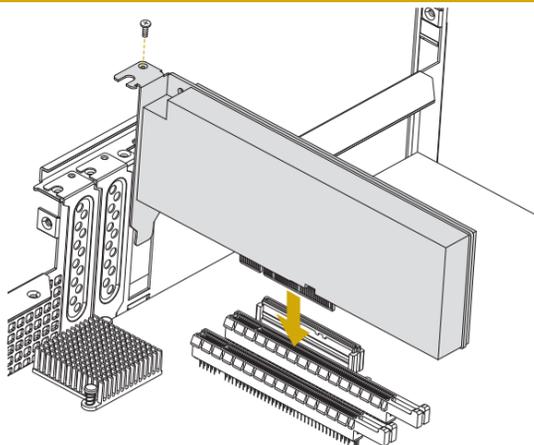
Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection or no link
Blinking Yellow	Data Activity	Yellow	100Mbps connection
On	Link	Green	1Gbps connection

### LAN Port



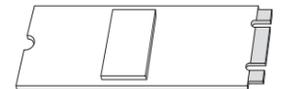
Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10M bps connection or no link
Blinking Yellow	Data Activity	Yellow	100M bps connection
On	Link	Green	1Gbps connection

## 9 Install the PCIE Card



## 12 M.2\_SSD (NGFF) Module Installation

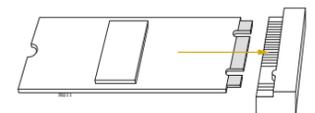
- 1 Prepare a M.2\_SSD (NGFF) module and the screw.



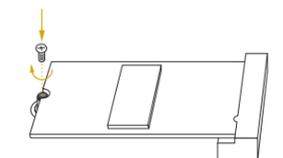
- 2 Peel off the yellow protective film on the nut to be used. Hand tighten the standoff into the nut location on the motherboard.



- 3 Align and gently insert the M.2 (NGFF) SSD module into the M.2 slot. Please be aware that the M.2 (NGFF) SSD module only fits in one orientation.



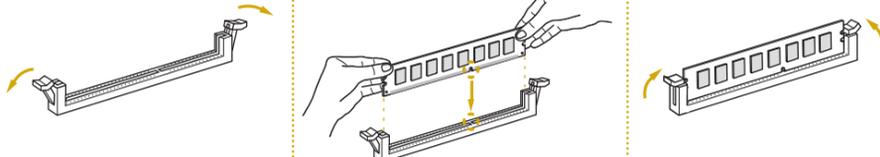
- 4 Tighten the screw with a screwdriver to secure the module into place. Please do not overtighten the screw as this might damage the module.



\* The M.2 socket supports M.2 module type 2230 (PCB length: 3 cm).

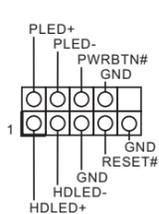
## 10 Install the Memory

- 1 Unlock a DIMM slot by pressing the module clips outward.
- 2 Insert the memory module.
- 3 Lock the clips.



## 11 Headers

### System Panel



### Auxiliary Panel

