



P/N: 15G065081100AK V1.0

Quick Installation Guide

C236 WS

ASRock
Rack
www.asrockrack.com



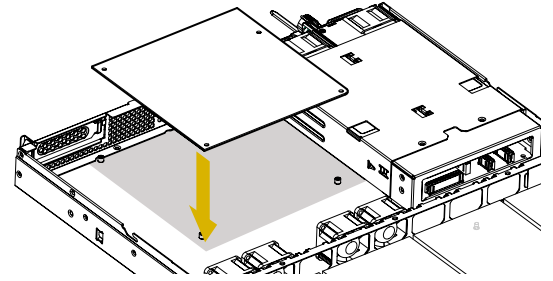
The server board User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

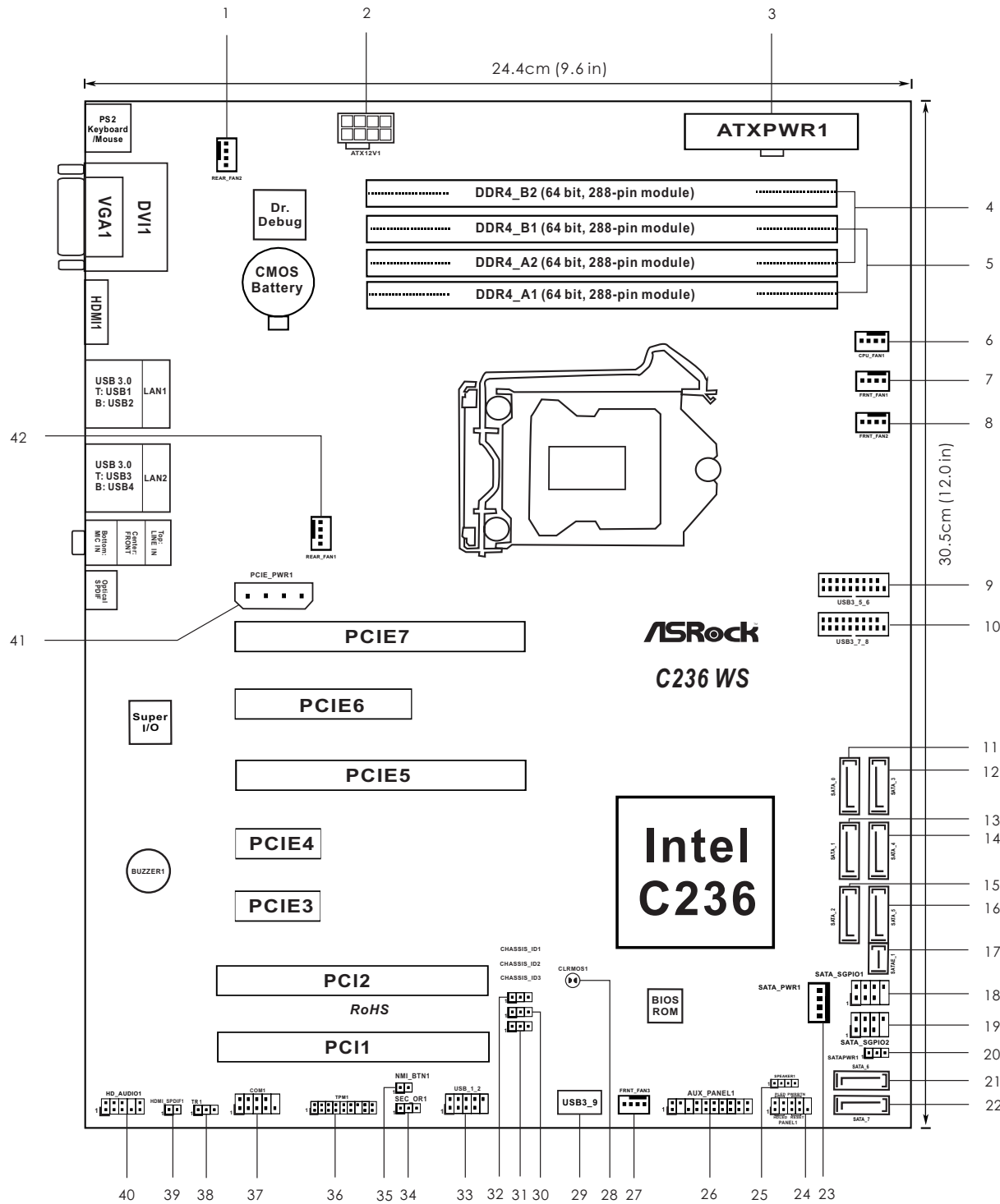
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the server board's components due to static electricity, NEVER place your server board directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before 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

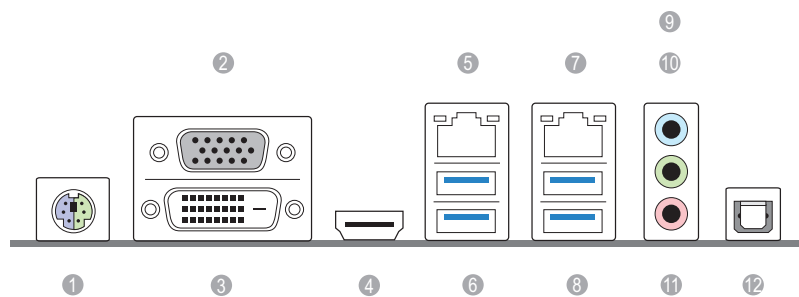


2 Motherboard Layout



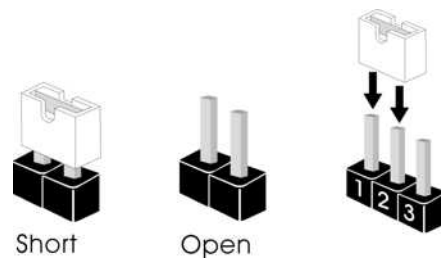
No.	Description
1	Rear Fan Connector (REAR_FAN2)
2	ATX 12V Power Connector (ATX12V1)
3	ATX Power Connector (ATXPWR1)
4	2 x 288-pin DDR4 DIMM Slots (DDR4_A2, DDR4_B2, Blue)
5	2 x 288-pin DDR4 DIMM Slots (DDR4_A1, DDR4_B1, White)
6	CPU Fan Connector (CPU_FAN1)
7	Front Fan Connector (FRNT_FAN1)
8	Front Fan Connector (FRNT_FAN2)
9	USB 3.0 Header (USB3_5_6)
10	USB 3.0 Header (USB3_7_8)
11	SATA3 Connector (SATA_0)
12	SATA3 Connector (SATA_3)
13	SATA3 Connector (SATA_1)
14	SATA3 Connector (SATA_4)
15	SATA3 Connector (SATA_2)
16	SATA3 Connector (SATA_5)
17	SATA Express Connector (SATAE_1, White, from PCH)
18	SATA SGPIO Connector (SATA_SGPIO1)
19	SATA SGPIO Connector (SATA_SGPIO2)
20	SATA DOM Power Header (SATA_PWR1)
21	SATA3 DOM Connector (SATA_6), Red
22	SATA3 Connector (SATA_7)
23	SATA DOM Power Jumper (SATAPWR1)
24	System Panel Header (PANEL1)
25	Speaker Header (SPEAKER1)
26	Auxiliary Panel Header (AUX_PANEL1)
27	Front Fan Connector (FRNT_FAN3)
28	Clear CMOS Pad (CLRSMOS1)
29	Vertical Type A USB 3.0 (USB3_9)
30	Chassis ID2 Jumper (CHASSIS_ID2)
31	Chassis ID3 Jumper (CHASSIS_ID3)
32	Chassis ID1 Jumper (CHASSIS_ID1)
33	USB 2.0 Header (USB_1_2)
34	Flash Descriptor Security Override Jumper (SEC_OR1)
35	Non Maskable Interrupt Button (NMI_BTN1)
36	TPM Header (TPM1)
37	COM Port Header (COM1)
38	Thermal Sensor Header (TR1)
39	HDMI SPDIF Header (HDMI_SPDIF1)
40	Front Panel Audio Header (HD_AUDIO1)
41	PCIe Power Connector (PCI_PWR1)
42	Rear Fan Connector (REAR_FAN1)

3 I/O Panel



No.	Description	No.	Description
1	PS/2 Mouse/Keyboard Port	7	LAN RJ-45 Port (LAN2)
2	VGA Port (VGA1)	8	USB 3.0 Ports (USB3_3_4)
3	DVI Port (DVI1)	9	Line In (Light Blue)
4	HDMI Port (HDMI1)	10	Front Speaker (Lime)
5	LAN RJ-45 Port (LAN1)	11	Microphone (Pink)
6	USB 3.0 Ports (USB3_1_2)	12	Optical SPDIF Out Port (SPDIF1)

4 Jumper Cap On/Off



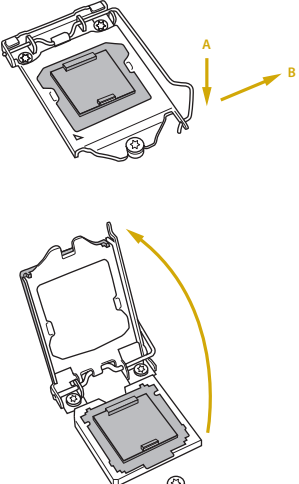
When the jumper cap is placed on the pins, the jumper is "Short". If no jumper cap is placed on the pins, the jumper is "Open".

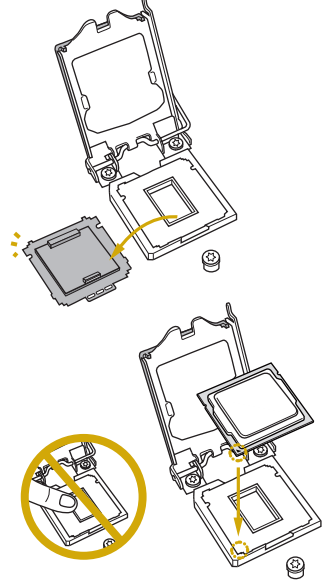
The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when a jumper cap is placed on these 2 pins.

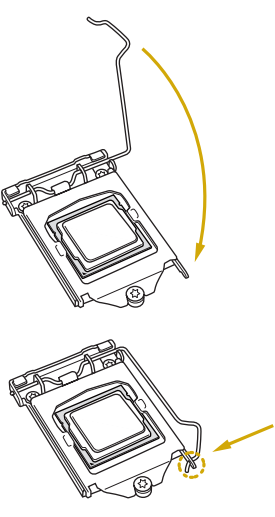


5 Install the Processor

- 1 Open the socket levers and the CPU socket cover. Remove the CPU protection cap.


- 2 Install the processor and close the socket cover.

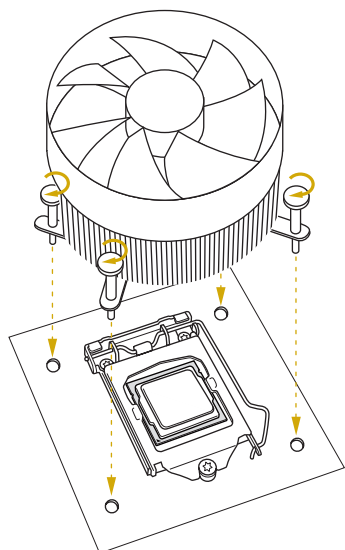

- 3 Close the socket levers.

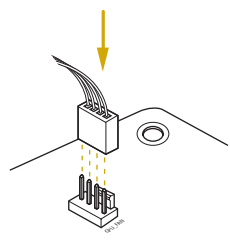


We recommend using the CPU Installation tool to avoid CPU pin-bent problem.

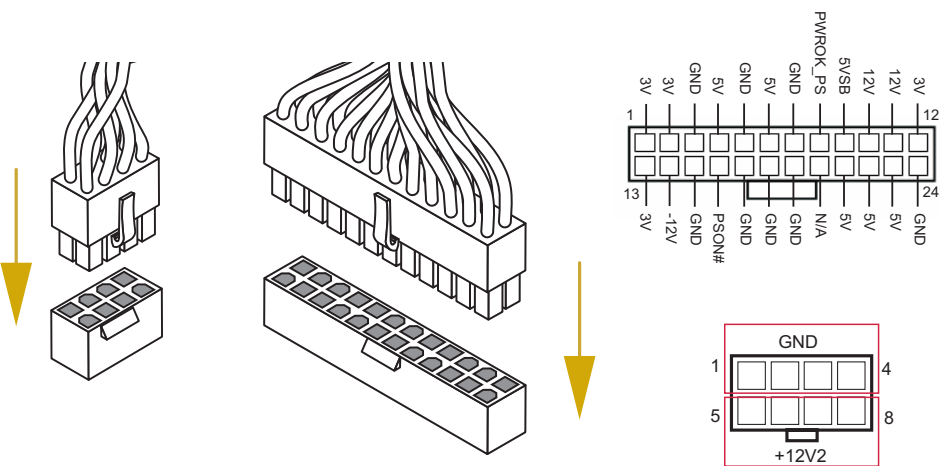
6 Install the CPU Fan and Heatsink

- 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.

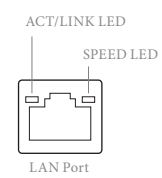


7 Install the Power Cables



8 LAN Port LED Indications

LAN Port



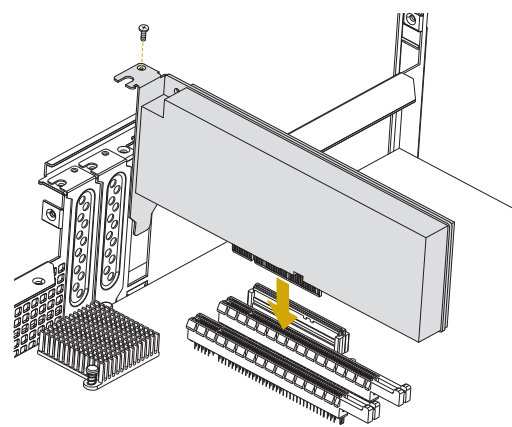
Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10M bps connection or no link
Blinking Yellow	Data Activity	Yellow	100M bps connection
On	Link	Green	1Gbps connection

9 Dr. Debug

Code	Description
00	Please check if the CPU is installed correctly and then clear CMOS.
0d	Problem related to memory, VGA card or other devices. Please clear CMOS, re-install the memory and VGA card, and remove other USB, PCI devices.
01 - 54 (except 0d), 5A- 60	Problem related to memory. Please re-install the CPU and memory then clear CMOS. If the problem still exists, please install only one memory module or try using other memory modules.
55	The Memory could not be detected. Please re-install the memory and CPU. If the problem still exists, please install only one memory module or try using other memory modules.
61 - 91	Chipset initialization error. Please press reset or clear CMOS.
92 - 99	Problem related to PCI-E devices. Please re-install PCI-E devices or try installing them in other slots. If the problem still exists, please remove all PCI-E devices or try using another VGA card.
A0 - A7	Problem related to IDE or SATA devices. Please re-install IDE and SATA devices. If the problem still exists, please clear CMOS and try removing all SATA devices.
b0	Problem related to memory. Please re-install the CPU and memory. If the problem still exists, please install only one memory module or try using other memory modules.
b4	Problem related to USB devices. Please try removing all USB devices.
b7	Problem related to memory. Please re-install the CPU and memory then clear CMOS. If the problem still exists, please install only one memory module or try using other memory modules.
d6	The VGA could not be recognized. Please clear CMOS and try re-installing the VGA card. If the problem still exists, please try installing the VGA card in other slots or use other VGA cards.
d7	The Keyboard and mouse could not be recognized. Please try re-installing the keyboard and mouse.
d8	Invalid Password.
FF	Please check if the CPU is installed correctly and then clear CMOS.

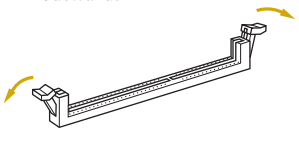
10 Install the PCIE Card

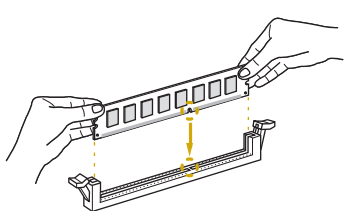
- 1 Remove the bracket facing the slot that you intend to use. Keep the screw for later use.
- 2 Align the card connector with the slot and press firmly until the card is completely seated on the slot.
- 3 Fasten the card to the chassis with the screw.

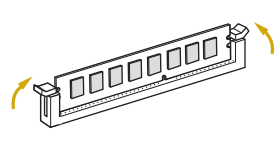


11 Install the Memory

- 1 Unlock a DIMM slot by pressing the module clips outward.

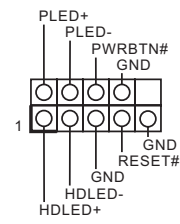

- 2 Insert the memory module.


- 3 Lock the clips.

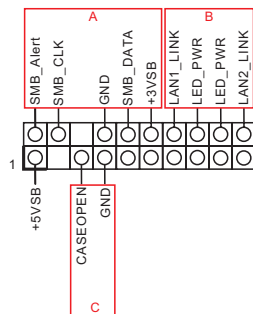


12 Headers

System Panel



Auxiliary Panel



Front Panel Audio

