

Hardware Quick Installation Guide

Motherboard Components

BIOS Recovery
BIOS_RCVR
1 2 3

Default
1 2 3

Enable
1 2 3

PM/Bus Address
PSMB_SEL1
1 2 3

Default
1 2 3

Enable
1 2 3

Clear CMOS
CLR_CMOS1
1 2 3

Default
1 2 3

Enable
1 2 3

S3 Power On
Select S3_MASK
1 2 3

Default
1 2 3

Enable
1 2 3

NCSI Switch
ON Mezzanine Slot
OFF Onboard LAN

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DIMM_PO_H0

DIMM_PO_G0

DIMM_PO_F0

DIMM_PO_E0

CPU

DIMM_PO_A0

DIMM_PO_B0

DIMM_PO_C0

DIMM_PO_D0

No

Description

No

Description

1

Rear VGA Port

2

Serial Port Connector

3

12V Standby Power Connector (for system power)

4

10/100/1000 Server Management LAN Port

5

IPMB Connector

6

Power Button with LED

7

ID Button with LED

8

Reset Button (top)/ NMI Button (bottom)

9

System status LED

10

LAN Port #1 Active/Link LED

11

10 GbE LAN Port #1

12

10 GbE LAN Port #2

13

LAN Port #2 Active/Link LED

14

USB 3.0 Port x 2

15

HDD Back Plane Board Connector

16

SlimLine 4i connector #0 (support NVMe)

17

SlimLine 4i connector #1 (support NVMe)

18

SlimLine 4i connector #1 (SATA 6Gb/s signal/for SATA #0 - #3)

19

SlimLine 4i connector #2 (SATA 6Gb/s signal/for SATA #4 - #7)

20

2 x 9 Pin CPU Power Connector

21

NMVe SMBus Connector

22

PCIe x16 slot #2

23

PCIe x16 slot #4

24

M.2 Connector #0 (PCIe Gen3 x4)

25

M.2 Connector #1 (PCIe Gen3 x4)

26

Front Pnel Header (primary)

27

2 x 9 Pin CPU Power Connector (for secondary CPU)

28

Front Panel Header (secondary/for power distribution board)

29

PCIe x16 slot #3

30

PCIe x16 slot #1

31

System Battery

32

2 x 9 Pin System Power Connector (system main power)

33

Case Open Intrusion Header

34

Proprietary PCIe x16 slot

35

TPM connector

36

Proprietary PCIe x8 slot x 2 (Mezzanine Slots For NCSI Switch Function)

System Components

- 1

Hard Drives

2

Hard Drive Cage

3

GPU Fan #7/GPU Fan #8 (GPU78_FAN)

4

GPU Fan #3/GPU Fan #4 (GPU34_FAN)

5

System Fan #2 (SYS_FAN2)

6

System Fan #1 (SYS_FAN1)

7

GPU Card #5 (top)/GPU Card #4 (bottom)

8

GPU Card #6 (top)/GPU Card #7 (bottom)

9

CPU and Heat Sink

10

DDR DDR4 Memory

11

GPU Card #3 (top)/GPU Card #2 (bottom)

12

GPU Card #0 (top)/GPU Card #1 (bottom)

13

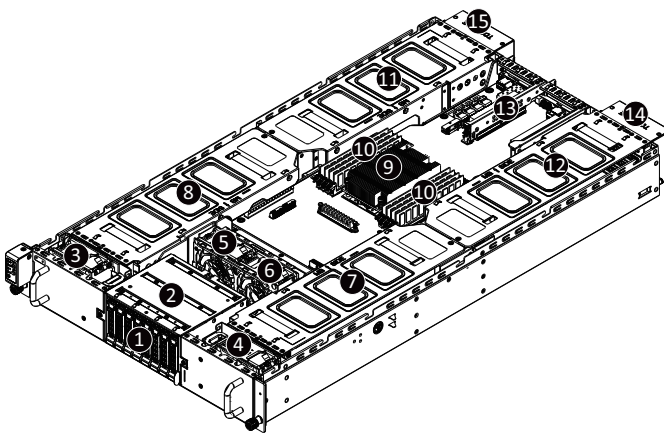
GPU Fan #1/GPU Fan #2 (GPU12_FAN)

14

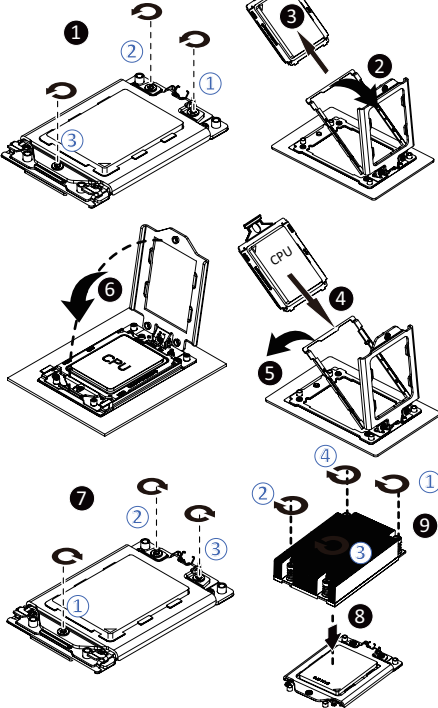
GPU Fan #5/GPU Fan #6 (GPU56_FAN)

15

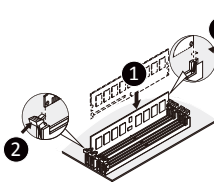
Riser bracket



CPU and Heatsink



Memory



RDIMM Maximum Frequency Supported Table

DIMMs Populated	DIMM			Frequency (MT/s)	
	1R	2R	4DR	1.2V	
1	1	--	--	2667	
	--	1	--	2667	
	--	--	1	Not Supported	
	1	--	--	2667	
	--	1	--	2400	
	--	--	1	Not Supported	

LRDIMM Maximum Frequency Supported Table

DIMMs Populated	DIMM			Frequency (MT/s)	
	1R	2S4R	4DR	1.2V	
1	1	--	--	Not Supported	
	--	1	--	2667	
	--	--	1	2667	
	1	--	--	Not Supported	
	--	1	--	2667	
	--	--	1	2667	

- NOTE!

1R: 1 package rank of SDP DRAMs

2R: 2 package rank of SDP DRAMs

2DR: 2 package rank of DDP DRAMs

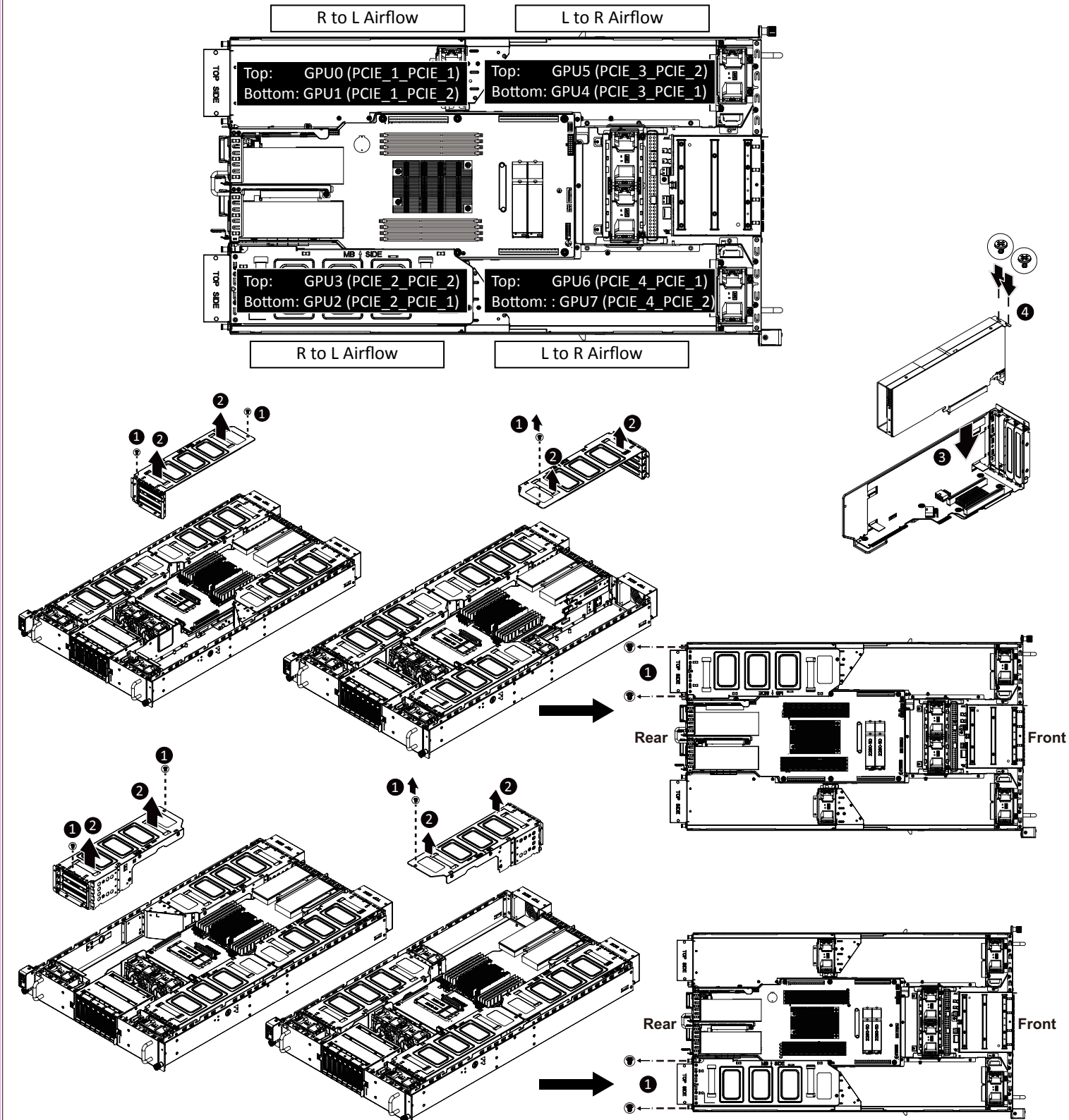
4DR: 2 package rank of DDP DRAMs

1S2R/1S4R/1S8R: 1 package rank of 2/4/8 high 3DS DRAMs

2S2R/2S4R/2S8R: 2 package rank of 2/4/8 high 3DS DRAMs

DIMM must be populated in sequential alphabetic order, starting with bank A.

GPU Card



System Appearance

System Front View

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Front panel LED and buttons

System fan (GPU78_FAN)

2.5-inch hard disk drive #0

2.5-inch hard disk drive #1

2.5-inch hard disk drive #2

2.5-inch hard disk drive #3

2.5-inch hard disk drive #4

2.5-inch hard disk drive #5

2.5-inch hard disk drive #6

2.5-inch hard disk drive #7

System fan (GPU34_FAN)

System Rear View

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System Fan (GPU12_FAN)

VGA Port

10/100/1000 Server Management LAN port

Power Button with LED

ID Button

Reset Button

System Status LED

LAN Port #1 Active/Link LED

10 GbE LAN Port x 2

LAN Port #2 Active/Link LED

USB 3.0 Port x 2

System Fan (GPU56_FAN)

Power Supply (PSU1) Fan

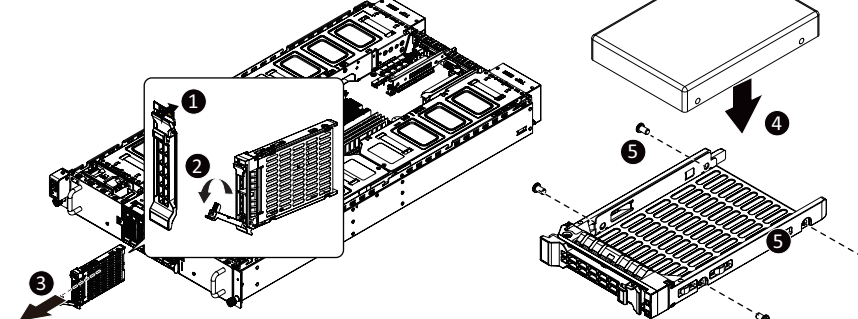
Power Supply Module Cord Socket

NMI Button

Power Supply (PSU2) Fan

Power Supply Module Cord Socket

Hard Disk Drive



PCI Express Card

