intel. **XEON** PLATINUM

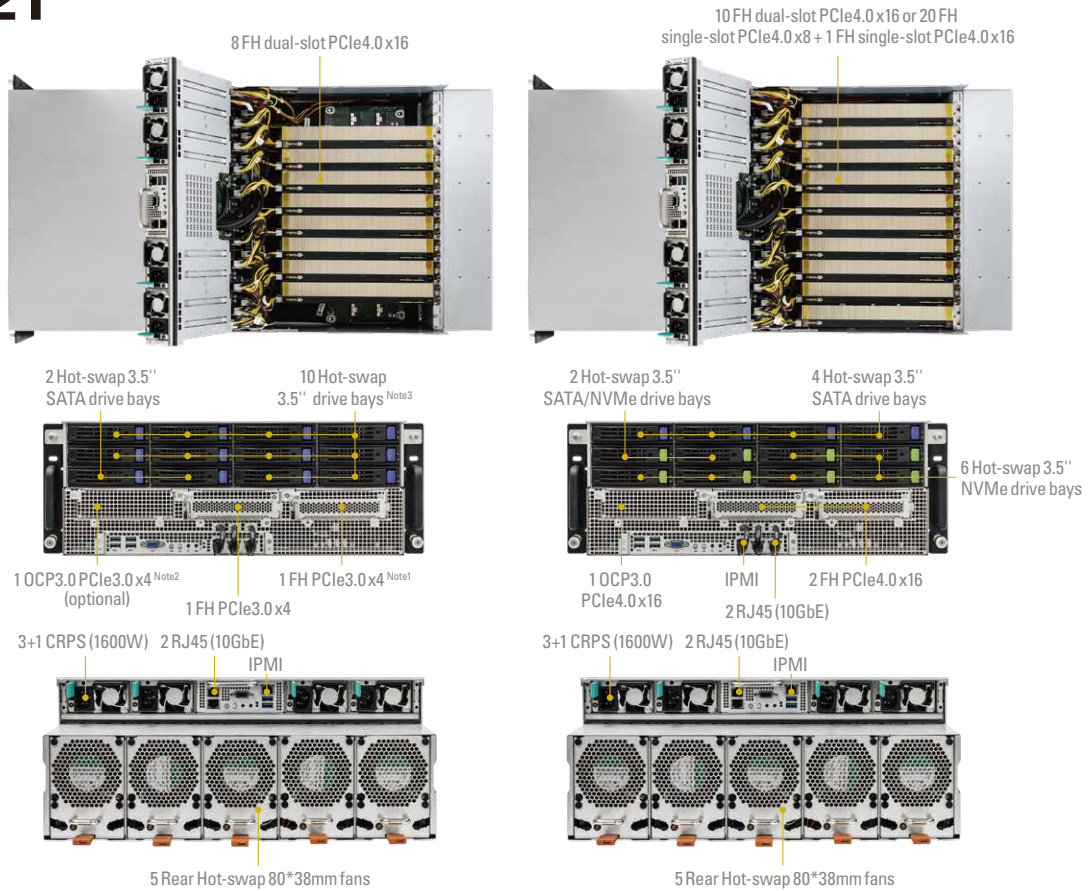# 4U8G-ICX2/2T

4U10G-ICX2/2T

PCI-E 4.0

10G

PCI-E 4.0   10Gbase-T

Application

- AI Training
- Big Data Analytics
- HPC
- Rendering
- VDI

8 FH dual-slot PCIe4.0 x16

10 FH dual-slot PCIe4.0 x16 or 20 FH single-slot PCIe4.0 x8 + 1 FH single-slot PCIe4.0 x16

2 Hot-swap 3.5'' SATA drive bays   10 Hot-swap 3.5'' drive bays Note3

2 Hot-swap 3.5'' SATA/NVMe drive bays   4 Hot-swap 3.5'' SATA drive bays

6 Hot-swap 3.5'' NVMe drive bays

1 OCP3.0 PCIe3.0 x4 Note2 (optional)   1 FH PCIe3.0 x4 Note1
1 FH PCIe3.0 x4

1 OCP3.0 PCIe4.0 x16   IPMI   2 FH PCIe4.0 x16
2 RJ45 (10GbE)

3+1 CRPS (1600W)   2 RJ45 (10GbE)
IPMI

3+1 CRPS (1600W)   2 RJ45 (10GbE)
IPMI

5 Rear Hot-swap 80*38mm fans

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		4U8G-ICX2/2T	4U10G-ICX2/2T
CPU	Socket	1+1 Socket P+ (LGA4189) for 3rd Gen Intel® Xeon® Scalable Processors	1+1 Socket P+ (LGA4189) for 3rd Gen Intel® Xeon® Scalable Processors
DIMM	Slot	16+16 DDR4 288-pin (2DPC)	16+16 DDR4 288-pin (2DPC)
System Physical Status	Form Factor	4U Rackmount	4U Rackmount
	Chassis Dimension	845 x 438 x 176.5 mm (33.27'' x 17.24'' x 6.95'')	845 x 438 x 176.5 mm (33.27'' x 17.24'' x 6.95'')
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button w/ LED	Power button w/ LED, Reset button, NMI button, UID button w/ LED
	LEDs	System fault LED, HDD activity LED	System fault LED, HDD activity LED
	I/O	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Rear IO	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Rear IO
		4 USB3.2 Gen1 ports	4 USB3.2 Gen1 ports
		1 DB15 (VGA)	1 DB15 (VGA)
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Front Panel	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Front Panel
	Others	UID button w/ LED, Power button w/ LED, Reset button, NMI button, System fault LED, HDD activity LED, 1 DB15 (VGA)	UID button w/ LED, Power button w/ LED, Reset button, NMI button, System fault LED, HDD activity LED, 1 DB15 (VGA)
		1 dedicated IPMI, shares with Front Panel	1 dedicated IPMI, shares with Front Panel
Expansion Slots	Front	1 FH PCIe3.0 x4 [PCH]	1 FH PCIe4.0 x16 [CPU0]
		1 FH PCIe3.0 x4 [PCH] Note1	1 FH PCIe4.0 x16 [CPU1]
		1 OCP3.0 PCIe3.0 x4 [PCH] Note2 (optional)	1 OCP3.0 PCIe4.0 x16 [CPU1]
	Rear	4 FH dual-slot PCIe4.0 x16 [CPU0]	5 FH dual-slot PCIe4.0 x16 or
		4 FH dual-slot PCIe4.0 x16 [CPU1]	10 FH single-slot PCIe4.0 x8 [PEX88096 PCIe switch connect to CPU0]
			5 FH dual-slot PCIe4.0 x16 or
			10 FH single-slot PCIe4.0 x8 [PEX88096 PCIe switch connect to CPU1]
			1 FH single-slot PCIe4.0 x16 [CPU1]
Drive Bay/ Storage	External	2 Hot-swap 3.5'' SATA drive bays	6 Hot-swap 3.5'' NVMe drive bays
		10 Hot-swap 3.5'' drive bays Note3	4 Hot-swap 3.5'' SATA drive bays
			2 Hot-swap 3.5'' SATA/NVMe drive bays
	Internal	2 M-key Note1 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]	2 M-key Note1 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]
Power Supply	Module	3+1 Platinum 1600W CRPS	3+1 Platinum 1600W CRPS
System Cooling	Fan	5 Middle Hot-swap 80 x 80 mm fans	5 Middle Hot-swap 80 x 80 mm fans
		5 Rear Hot-swap 80 x 38 mm fans	5 Rear Hot-swap 80 x 38 mm fans
Management		ASPEED BMC AST2500	ASPEED BMC AST2500
Security		TPM by optional accessory	TPM by optional accessory

Note1: 1 FH PCIe3.0 x4 will be disabled when M2_2 is populated
Note2: Supports 1 OCP3.0 PCIe3.0 x4 possible by cable reconfiguration
Note3: Please contact ASRock Rack if additional 10 Hot-swap 3.5'' drive bays need to be supported

GPU server