

4U8G-ICX2/2T

Highly Configurable 4U GPU Server Powered by
3rd Gen Intel® Xeon® Scalable Processors



4U10G-ICX2/2T



4U8G-ICX2/2T

4U10G-ICX2/2T

| | | 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 4 USB3.2 Gen1 ports 1 DB15 (VGA) | 2 RJ45 (10GbE) by Intel® X710-AT2, shares with Rear IO 4 USB3.2 Gen1 ports 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) 1 dedicated IPMI, shares with Front Panel | 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 |
| Expansion Slots | Front | 1 FH PCIe3.0 x4 [PCH] 1 FH PCIe3.0 x4 [PCH] ^{Note1} 1 OCP3.0 PCIe3.0 x4 [PCH] ^{Note2} (optional) | 1 FH PCIe4.0 x16 [CPU0] 1 FH PCIe4.0 x16 [CPU1] 1 OCP3.0 PCIe4.0 x16 [CPU1] |
| | Rear | 4 FH dual-slot PCIe4.0 x16 [CPU0] 4 FH dual-slot PCIe4.0 x16 [CPU1] | 5 FH dual-slot PCIe4.0 x16 or 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 10 Hot-swap 3.5" drive bays ^{Note3} | 6 Hot-swap 3.5" NVMe drive bays 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 Rear Hot-swap 80 x 38 mm fans | 5 Middle Hot-swap 80 x 80 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