



8U8X-GNR2 SYN B200

- 8U Rackmount with 6+6, 80-PLUS Titanium, 3000W CRPS
- NVIDIA® HGX B200 8-GPU with NVIDIA® NVSwitch™
- Optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage by PCIe Switch Synthetic Mode
- Dual Socket E2 (LGA 4710), supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
- 16+16 DIMM slots (2DPC); supports DDR5 RDIMM, RDIMM-3DS, MRDIMM
- 8 HHHL PCIe5.0 x16, 2 FHHL PCIe5.0 x16
- 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch
- 2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU
- Supports 1 M.2 (PCIe5.0 x2)
- 2 RJ45 (1GbE) by Intel® i350-AM2
- Remote management (IPMI)



Specifications

System	
Form Factor	8U Rackmount
Dimensions	930 x 448 x 353.6mm (36.6" x 17.6" x 13.9")
Support Motherboard	GNR2D32G-2L+
Front Panel	
Buttons	Power button w/ LED, Reset button, NMI button, UID button
LEDs	System fault LED, HDD activity LED
I/O Ports	2 RJ45 (1GbE) by Intel i350, shares with Rear IO 1 dedicated IPMI, shares with Rear IO 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)
External Drive Bay / Storage	
Front Side Drive Bay	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch 2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU
Internal Side	1 M-key (PCIe5.0 x2), supports 22110/2280 form factor [CPU0]
Power Supply	
Type	6+6 CRPS
Output Watts	3002.4W @ 220-240Vac input, 2900W @200-220Vac input
Efficiency	80-PLUS Titanium

The specification is subject to change without notice in advance. ASRock Rack is the official trademark for ASRock Rack Inc., all the covers need to remain the original brand name without any modification. All other brands, names and trademarks are the property of their respective owners.



+886-2-5559-9600

+886-2-2893-1557

asrockrack_sales@asrockrack.com

4F., No.37, Sec.2, Zhongyang S. Rd., Beitou District, Taipei City 112, Taiwan (R.O.C)

www.asrockrack.com

@ASROCKRACK

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AC Input	200-240Vrms, 50/60Hz
System Fan	
Fan	29 PWM 80x80 mm fans + 4 PWM 40x40 mm fans
Processor System	
GPU	NVIDIA® HGX B200 8-GPU with NVIDIA® NVSwitch™
CPU	Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series Processors
Socket	1+1 Socket E2 (LGA 4710)
Chipset	System on Chip
System Switch Board	
Switch IC	PEX89104
Topology	Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage
System Memory	
Supported DIMM Quantity	16+16 DIMM slots (2DPC)
Supported Type	DDR5 RDIMM, RDIMM-3DS DDR5 MRDIMM (1DPC only)
Max. Capacity per DIMM	RDIMM: 128GB RDIMM-3DS: 256GB MRDIMM: 64GB
Max. DIMM Frequency	RDIMM, RDIMM-3DS: 6400MT/s (1DPC), 5200MT/s (2DPC) MRDIMM: 8000MT/s (1DPC only)
Voltage	1.1V
PCIe Expansion Slots	
PCIe x 16	Rear: 8 HHHL PCIe5.0 x16 2 FHHL PCIe5.0 x16
Ethernet	
Additional Ethernet Controller	Intel® i350: 2 RJ45 (1GbE)
Server Management	
BMC Controller	ASPEED AST2600: IPMI2.0 with iKVM and vMedia support
Dedicated IPMI LAN	1 Realtek RTL8211F for dedicated management GLAN
Graphics	
Controller	ASPEED AST2600
VRAM	DDR4 512MB
Rear I/O	
UID Button/LED	1 UID button
Video Port	1 DB15 (VGA)

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USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)
RJ45	2 RJ45 (1GbE) by Intel® i350, shares with Front Panel 1 dedicated IPMI, shares with Front Panel
System BIOS	
BIOS Type	AMI UEFI BIOS; 512Mb SPI Flash ROM
BIOS Features	Plug and Play, ACPI 4.0 and above compliance wake up events, SMBIOS 3.4 and above, ASRock Rack instant flash
Hardware Monitor	
Temperature	CPU, MB, Card side Temperature Sensing
Fan	Fan Tachometer CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) Fan Multi-Speed Control
Voltage	P0_VDDCR_CPU0, P0_VDDCR_CPU1, P0_VDDCR_SOC, P0_VDD_18_DUAL, P0_VDD_11_S3, P0_VDDIO, P1_VDDCR_CPU0, P1_VDDCR_CPU1, P1_VDDCR_SOC, P1_VDD_18_DUAL, P1_VDD_11_S3, P1_VDDIO, +BAT, +12V, +3VSB, +5VSB
Environment	
Temperature	Operating temperature: 10°C ~ 35°C / Non-operating temperature: -40°C ~ 70°C
Humidity	Non-operating humidity: 20% ~ 90% (non-condensing)

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