

2U PCIe GPU Server for Edge Data Center



SYS-212GB-NR

Flexible Design Enables Multiple GPU Configurations

Supermicro's SYS-212GB-NR is part of its PCIe GPU server portfolio. It is a 2U, air-cooled server with a single socket CPU, making it an ideal, cost-effective solution to be deployed in an Edge Data Center. Configured with an Intel® Xeon® 6700-series processor with P-cores, this system is capable of delivering the processing capacity required for HPC and Edge AI inferencing applications across many different market verticals, such as retail, scientific research, and financial services.

With its ability to support up to four double-width Intel® Arc™ Pro B60/B70 graphics cards, the system can be optimized to handle multiple Edge AI inferencing applications. The system is designed to handle up to 350W TDP CPU (air cooled with up to six 6cm heavy duty fans) for deployment within an operating temperature range of 50°F to 95°F (10°C to 35°C).



**Scalable edge
inferencing
platform
combining Intel®
Xeon® compute
power with multi-
GPU acceleration.**

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Xeon® 6
Processors



Intel® oneAPI
Toolkit



OpenVINO™
Toolkit



Intel® Arc™
Graphics

Key Features

Empowered by Intel.



Powerful
Processing Power



Flexible
Expansion Slots



Ideal for HPC &
AI at Edge



Extensive
Management
Software

Supermicro SYS-212GB-NR



intel ai

Intel® AI Edge Systems

Product Specifications

CPU	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores
Graphics	Support up to 4x Intel® Arc™ Pro B60/B70 Graphics (DW)
Memory	Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 512GB 8000MT/s ECC DDR5 MRDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM
Storage	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110) 4 Front hot-swap E1.S NVMe drive bays
LAN	1 RJ45 1GbE Dedicated BMC LAN port
Operating / Storage Temp.	10°C ~ 35°C / -30°C ~ 60°C
Dimension (W x D x H)	438.4mm x 900mm x 88mm
Weight	38kg (gross) / 30kg (net)
OS	Oracle Linux 9.6, RHEL 10.0, Windows Server 2022, Windows Server 2025
I/O Options (Input/Output):	1 RJ45 1GbE Dedicated BMC LAN port; 1 USB 3.0 Type-A port (Rear); 1 mini-DP port

Learn More

[Supermicro SYS-212GB-NR](#)

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