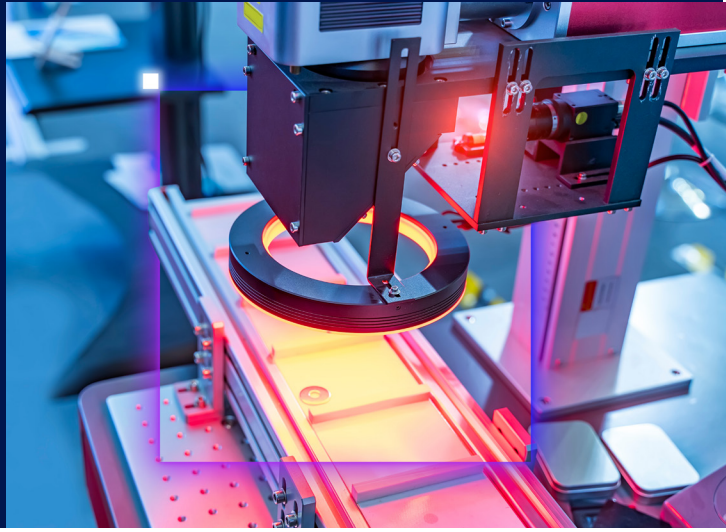
Intel® Xeon® 6 HPC and Edge AI Performance in a Compact 1U System



HPS-GNR1U

Compact 1U Intel® Xeon® 6 HPC System with PCIe Gen5 Expansion

AI inference, industrial analytics, and data-intensive applications increasingly demand high compute density, accelerator flexibility, and fast storage without occupying excessive rack space. The BCM HPS-GNR1U meets these requirements in a 1U 19-inch rackmount system powered by a single Intel® Xeon® 6 processor, supporting up to 350W TDP.

Designed around BCM's HPM-GNR1U motherboard, the system supports up to 2TB DDR5 RDIMM/MRDIMM memory and PCIe Gen5 expansion for GPUs or other accelerators. Customers can configure two full-height, full-length single-width PCIe Gen5 x16 cards or one double-width card, plus a half-height PCIe Gen5 x8 card. Storage options include up to ten hot-swappable E1.S NVMe drives or four U.2 NVMe drives.

Dual 10GbE networking, IPMI 2.0 remote management, and optional redundant power help system integrators deploy compact platforms for edge AI, high-performance computing, machine vision, and industrial data processing.





Key Features

- Intel® Xeon® 6 HPC Compute
- 1U 19" Rackmount
- 10 E1.S NVMe Bays
- Gen5 PCIe Riser Expansion

intel ai
Intel® AI Edge Systems

Intel Products & Technologies

Intel® Xeon® 6 Processors

OpenVINO™ Toolkit

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