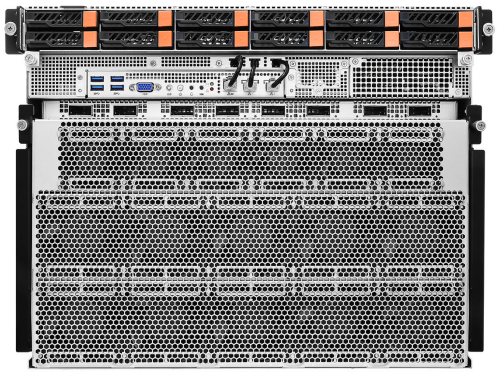
DATASHEET

Godi 1.8E2D-NV8

UNMATCHED DATACENTER-CLASS AI COMPUTE

HGX Blackwell Ultra B300 Platform for next-generation AI models



Key Features

- 19-inch 8U SXM6 B300
- Dual Intel® Intel® Xeon® 6700P/6500P/6700E-series processors
- 32x DDR5@ 6400MHz
- 4x PCIe 5.0 x16 FHHL slots
- 8x NVIDIA® HGX™ B300 NVL8
- Air Cooling

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ABOUT THIS PRODUCT

NVIDIA HGX Platform Powers AI Factories Worldwide

The Godi 1.8E2D-NV8 is a dual-socket, 8U high-density server designed to address the most demanding compute workloads. It supports up to 8 NVIDIA Blackwell Ultra B300 GPUs, delivering extreme performance for:

- Training and inference of large-scale LLMs
- High-Performance Computing (HPC) and complex simulations
- Large-scale data analytics
- Mission-critical enterprise and research applications

Optimized for performance, scalability, and efficiency, it is a reference platform for hyperscale datacenters.

NVIDIA HGX B300 NVL8 Platform

The HGX B300 NVL8 is purpose-built for next-generation AI workloads, where model sizes now exceed one trillion parameters.
Each platform integrates 8 NVIDIA Blackwell Ultra GPUs and provides:

- Second-Generation Transformer Engine for optimized LLM training and inference
- Support for NVFP4 format to reduce memory footprint while maintaining accuracy
- Fifth-Generation NVIDIA NVLink™, enabling ultra-fast GPU-to-GPU communication
- Up to 288 GB of HBM3e memory per GPU for high-capacity, high-bandwidth data processing

This architecture delivers unmatched density, bandwidth, and scalability for next-generation LLMs, multimodal AI, and large-scale inference.

8x 800 Gb/s via onboard NVIDIA ConnectX®-8 SuperNIC™

Featuring 8× 800 Gb/s bandwidth, the onboard ConnectX-8 SuperNIC enables ultra-low-latency networking, supports Quantum-X800 InfiniBand and Spectrum-X™ Ethernet, and integrates a PCIe Gen6 switch to eliminate bottlenecks and simplify scaling.

NVLink 5th Generation: Redefining Multi-GPU Performance

NVLink 5.0 delivers 1.8 TB/s bidirectional bandwidth per GPU, 14× faster than PCIe Gen5.

At rack scale, the NVLink Switch provides 14.4 TB/s of switching capacity, enabling up to 576 GPUs to operate as a single accelerator—doubling throughput over the previous generation and powering trillion-parameter AI and advanced HPC.

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SPECIFICIATIONS

System	**Model**	BRB-GI1-808E2D-NV8-R010
	Form factor	19-inch 8U
	Nodes	1 SYSTEM
	Dimension	930 x 448 x 353.6mm 36.6" x 17.6" x 13.9"
Storage	**Internal type**	1 M-key (PCIe5.0 x2), supports 22110/2280 form factor [CPU0] 2 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU1]
	External type	12 Hot-swap 2.5» NVMe (PCIe5.0 x4) drive bays [PCIe switch]
	RAID controler	Add-card or VROC in option
Motherboard	**CPU**	Dual Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series Processors Socket E2 (LGA 4710)
	Chipset	System on Chip
	Expansion slots	Rear: 4 FHHL PCIe5.0 x16 [PCIe switch]
	TPM	TPM 2.0, 13 pin connector, SPI interface
	BMC	Aspeed 2600
Memory	**Total slots**	32x (8-channel per CPU, up to 2-DIMM per channel)
	Memory type	1DPC: DDR5 RDIMM, 6400 MT/s 2DPC: DDR5 RDIMM, 5200 MT/s
GPU	**Architecture**	NVIDIA® HGX™ B300 NVL8
Network	**Onboard**	8x OSFP ports (up to 800Gb/s) via NVIDIA® ConnectX-8 SuperNIC
I/O	**Front**	2 x USB 3.2 Gen1 1 x DB15 (VGA) 2 x RJ45 1 GbE 1 x Mgmt LAN 1 x UID button w/LED 1 x 1 power button w/LED 1 x 1 reset button 1 x 1 NMI button 1 x 1 HDD activity LED 1 x 1 system fault LED
Management solution	**Out of band remote management**	WebGUI, Intelligent Platform Management Interface (IPMI)
Power supply	**Type**	6+6 Redundant 3000W 80 PLUS Titanium Power Supply 80 PLUS Titanium (96% at 50% load)
	Power rating	14 KW at 100% Load
Operating environement	**Operating temperature**	10°c ~ 35°C
	Non-operating temperature	-40°c ~ 70°C
	Operative relative humidity	20% ~90% (Non condensing)
Warranty	**2CRSi** hardware warranty includes a one year, parts and labour with return to 2CRSi selling entity. Customers may purchase an extended warranty of up to 3 years on parts and labour with different support levels. Please contact 2CRSi at support@2crsi.com or reach your sales point of contact for complete warranty details including limitations and transferability. 2crsi.com/global-location	