



C805G7

Powering the Next Generation of AI and HPC Performance

Highlights

- Support 5th Gen AMD EPYC™ Processor, up to 500W
- Support DDR5 RDIMM, up to 7200 MT/s @ 1DPC
- Support 4 FHFL double slot GPU card
- Support up to 16 U.2 SSD or 16 SATA
 HDD
- Modular architecture to provide customers with the best performance platform
- Maximize serviceability with front IO and front node servicing







The Inventec C805G7 is purpose-built to meet the growing demands of compute-intensive AI, HPC, and data-driven applications. Designed around the 5th Gen AMD EPYC™ processors, it delivers exceptional core density, memory bandwidth, and scalability for mission-critical workloads. Whether deployed for large-scale AI model training, real-time inference, or advanced scientific simulations, the C805G7 provides the raw performance and efficiency required to accelerate innovation. Its support for up to 500 W per CPU ensures the platform can fully leverage the latest processor advancements while maintaining reliable operation under sustained heavy loads.

High-Bandwidth Architecture with Scalable Acceleration

Built on a flexible, future-ready architecture, the C805G7 maximizes data throughput with DDR5 RDIMM memory running at up to 6400 MT/s (1DPC). The system accommodates up to four FHFL double-slot GPUs, unlocking massive parallel processing capabilities for complex AI, HPC, and simulation workloads. Storage is equally adaptable, supporting up to 24 U.2 NVMe SSDs or 16 SATA HDDs, allowing configurations to be optimized for speed, capacity, or a balance of both. The default highefficiency air cooling system ensures stable operation in most deployments, while an optional liquid cooling solution is available for customers seeking even greater thermal performance in high-density or high-power environments.



Optimized for AI, HPC, and DataIntensive Applications

With its 2U1N (single-node) design, the C805G7 is ideal for scenarios that prioritize vertical scaling, minimizing inter-node communication overhead. This makes it a perfect fit for HPC simulations requiring large memory bandwidth, AI workloads where training and inference benefit from local resource consolidation, and high-performance databases that demand rapid, in-node data processing. By combining cutting-edge processor performance with advanced GPU acceleration, flexible storage, and versatile cooling options, the C805G7 empowers organizations to push the boundaries of what is possible in AI and HPC computing.

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Form Factor Processor Memory	2U1N Rackmount W x H x D: 447.6x87x 850 mm (17.63x 3.43x 33.46inch) 5th Gen AMD EPYC™ Processors, TDP 500W 12 channel DDR5 with ECC up to 6400 MT/s Support for 2-,4-,6-,8-,10-,12-channel memory interleaving RDIMM, 3DS RDIMM
Storage/ PCIe Card	configuration Front: Config 1:16x3.5"HDD+2xFHHL PCle Card Config 2:12x3.5"HDD+6xFHHL PCle Card Config 3:16x3.5"HDD+4x2.5"HDD Config 4:8x3.5"HDD+4xDW GPU+DW PCle Card Config 5:24x2.5"HDD+2xFHHL PCle Card Config 5(Front IO):18x2.5"HDD + 3xFHHL PCle Card Internal Support 1x22110/2280 M.2 for boot device
Expansion slots	Support 16x MCIOx8 Connector
Network Controller	support 1 x PCIe Gen5 x16 x OCP Support NCSI
Management Port	Support Aspeed AST2600 BMC NCSI connect to OCP 3.0, 10M/100M/1G Ethernet MAC controller
Power Supply	DC 12V From 1+1 CRPS
Fan	5+1x 6056 Fans @35'C ambient temperature with one fan rotor fail condition

About Inventec Data Center Solutions (Inventec EBG)

Inventec Data Center Solutions (Inventec EBG) was established in 1998 and has been focusing on the design and manufacturing of server systems in Inventec Corporation. Over decades, Inventec EBG has been the key server system supplier of the global branding clients.

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