



C805G6

2U2N

4th Gen AMD EPYC™
Processors-Based Server



DDR5



5.0



Highlights

- Support full range of 4th generation AMD EPYC processor in 2U space per node
- Maximize serviceability with front I/O and front sled servicing
- Support 12x DDR5 1DPC, OCP 3.0, and up to 8 PCIe Gen5 E1.S NVMe
- Support 1 FHFL double slot GPU card
- Efficient management system controlled and monitored remotely
- Support 2 power supply applications

As a part of Green Enterprise, Inventec is dedicated to create more ECO products to reduce power consumption and to enhance customers' efficiency. Also, data security is the emphasis for modern companies that rely heavily upon cloud services. Inventec understands the needs, and therefore we present to you the product Inventec C805G6, based on 4th Gen AMD EPYC™ processor. Referring to AMD's data, there will be at least a two time increase in the total operated efficacy, also it supports AMD Infinity Guard that provides our customers advanced protection.

A Powerful, Scalable, and Flexible 2U server

With Artificial Intelligence (AI) and deep learning emerged into our daily life, an efficient server platform to deal with those heavy and multifarious data processing is getting more important. Therefore, a scalable and flexible server will be an excellent opportunity for those companies. Inventec C805G6 is a flexible server that equips with 4 SSDs, interchangeable between various storage form factors (E1.S/U.2/E3.S), and also has an option to expand up to 8 SSDs per sled. Moreover, for vision and imaging processing workloads, C805G6 offers GPU as an option to provide extra computational needs. There are more elements that make C805G6 a powerful server system. It supports outstanding performance by adapting 12x DDR5, OCP 3.0 NIC, and internal PCIe Gen5 x16 expansion slot, and offering two power supply applications (CRPS/DC 48V).

Front View



Rear View



Management, Monitoring, and Security

Managing and monitoring systems remotely is a necessary requirement for today's remote working environment. Inventec C805G6 not only provides an easy to use system health status monitoring, but also offers security through AST1060 Root of Trust module, following OCP DC-SCM 2.0 standard.

Great Serviceability with the Modular and Tool-less Design

A modular design not only provides ODM/OEM companies to create a product quickly but also offers a comfortable maintenance experience when it combines with hot swapping and tool-less design. C805G6 supports both hot swapping and tool-less service for Motherboard tray/Hard-drive/Fan to deal with common issues. Also, C805G6 equips N+1 redundancy for both the power supplies and cooling fans to maintain the basic operation.

C805G6 | 2U Server System

Form Factor	2U2N Rack-Mounted Chassis (support dual CRPS PSUs, option to support ORV2 Busbar)
Dimension	D(750mm), W(445mm), H(87.3mm) (with L-shape bracket)
Processor	4th Gen AMD EPYC™ Processor, single socket
Memory Slot	12x DDR5 DIMM Slots Support RDIMM, LRDIMM, R/LRDIMM-3DS. (1DPC up to 4800MHz)
Expansion Slots/ Mezz	<ul style="list-style-type: none"> • 1x internal 22110 NVMe SSD for boot device (x4 PCIe Gen5) • 1x front access PCIe Gen5 x16 OCP 3.0 mezzanine card for NIC(Support NC-SI) • Option 1x PCIe Gen5 x16 FHHLWD PCIe card slot (up to 350W per slot)
Network Controller	OCP 3.0 Slot 1x PCIe Gen5 x16 OCP mezzanine card for NIC (Optional Support NC-SI)
BMC	ASPEED AST2600 with AMI BMC support (Optional support Open BMC) (Optional) BMC NCSI connect to OCP 3.0 slot 10M/100M/1G Ethernet MAC controller for management
Storage Controller	In front side: <ul style="list-style-type: none"> • 4x PCIe Gen5 x4 U.2 NVMe SSD • 4x PCIe Gen5 x4 E3.S NVMe SSD (optional) • 8x PCIe Gen5 x4 E1.S NVMe SSD (optional) • No NVME SSD drives.
Security	TPM2.0 AST1060 module for RoT (OpenBMC, option to support AMI BMC)
Power Supply	Option(1) Dual CRPS support 1+1 redundancy, Option(2) DC 48V input with ORV2/ORV3 support (planning)
Fan	4x 8056 FANs

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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