



K885G7



High-Performance System AMD EPYC™ 9005 Series Processors-based System

Highlights

- **Best Virtualization Solution with Optimal TCO and Enhanced Security via Aspeed PROT feature**
- **Supports Turin 192-core 500W CPUs to enhance overall system performance**
- **Scalability Unleashed by Latest Technologies like DDR5 memory, PCIe Gen5 and OCP 3.0 to provide robust performance for diverse workloads.**
- **Excellent Serviceability and Flexibility Brought by Modular Design**



Virtualization



Hyperconverged
Storage



Cloud
Computing



High End
Enterprise Server

The Inventec K885G7 is a high-performance 2U server system based on dual socket 3nm AMD EPYC™ 9005 series processor. It is perfect for various applications including virtualization, cloud computing and high density computing. K885G7 also features impressive TCO reduction benefited from the industry leading core density, improved performance, and energy efficiency. In addition to the highly serviceable 2U enclosure, dual processors provide 160 lanes PCIe Gen5 (with x3 xGMI links) and 8 bonus lanes PCIe Gen3 on the MLB for scalability and flexibility. The serviceable hybrid flash array module supports NVMe with storage capacity by the optional advanced next generation SSDs.

Enhanced Security with AST1060 PROT

In today's complex network environments, hardware-level security is paramount. The K885G7 specifically integrates the Aspeed AST1060 PROT (Platform Root of Trust) chip. Through hardware Root of Trust technology, a strict firmware verification mechanism is initiated the exact moment the system is powered on, ensuring that critical firmware such as the BIOS and BMC remains untampered with (Secure Boot).

Overview

K885G7 is powered by the 5th generation dual socket AMD EPYC 9005™ platform series and is optimized for supporting the high processor TDPs for its class. It is equipped with up to 24 DDR5 DIMM @ 1DPC and up to 3x xGMI3 links per processor (32GT/s per xGMI) ideal for data center and processor intensive workload environments. Benefiting from industry-leading core density and energy efficiency, the K885G7 delivers astonishing performance while helping enterprises significantly reduce their Total Cost of Ownership (TCO). Furthermore, the system features highly flexible I/O and storage configurations, providing a robust and reliable solution for next-generation workloads.

K885G7 | AMD EPYC™ Server

Reliability Availability Serviceability (RAS) and Flexibility

K885G7 processor is equipped with extensive enterprise server class RAS capabilities. Memory Data is protected with advanced ECC in addition to the standard DDR5 RAS features. The silicon root of trust is a dedicated security processor embedded in the AMD EPYC system on chip (SoC) manages secure boot, secure virtualization secure memory encryption to minimize potential attack surfaces and enable better protection of software and data. To enhance availability, K885G7 provides highly modular design, supporting tool-less operations of serviceable parts, as well as redundancy for both power and cooling fans. It also provides increased computing density, energy efficiency and security features design infrastructure, and robust solution for future generation ed for modern software-defined workloads



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.

Form Factor	2U1N Rackmount W x D x H: 447.6 x 850.0 x 87.0 mm (17.62 x 33.46 x 3.42 inch)
Processor	AMD SP5 Dual Socket AMD EPYC Turin, up to 192 Core up to 500W TDP
CPU Process Tech	TSMC 3nm
GPU	AMD Radeon AI PRO R9700s AMD Instinct MI210
Memory Slot	12 Channels DDR5 per CPU @ 6400MT/s (1DPC) Total: 24 DIMMs
PCIe Lanes	80 PCIe Gen5 lanes per CPU Total 160 PCIe lanes
Expansion Slot	2x FHHL DW PCIe Gen5 slots (Rear) Supports up to 2x Double Width GPUs 2x FHHL SW PCIe Gen5 slots (Front) 1x OCP 3.0 network slot (Front or Rear)
System I/O	Front: VGA, 2x USB 3.1, UID & LED, Power Button, Health LED Rear: MGMT port, VGA, 2x USB 3.1, UID, Health LED
Network Controller	Support OCP 3.0
Storage	Front: Up to 16x NVMe SSDs, U.2 (40W max) Inside: M.2 boot drive options (HW Raid BCM MegaRAID 9520 / SW Raid Microchip SmartRAID 4308P-32a)
Management	Aspeed AST2600 BMC • 1GB DDR4 • Support 1 management LAN port • VGA
PROT/TPM	Aspeed AST1060 PROT (Platform Root of Trust) Embedded TPM2.0
VGA	VGA Video integrated into BMC (Front or Rear, one output at a time)
Power Supply	CRPS 2x2000W or 2x2700W PSUs 1+1 redundancy
Cooling	Air cool support CPU TDP up to 500W 500W high-efficiency thermal module
Fan	6x 6056 Fan (dual motors)

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