

Inventec® at core

Alternative Hyper-Converged Infrastructure



K885G4 - AMD Performance Server

As an alternative performance server option based on AMD® EPYC™ platform, K885G4 series targets HPC (high performance computing), storage and general-purpose usage with thirty-two DIMM capacity (up to 4TB with 128GB DIMMs) and expandability up to six standard PCIe cards. K885G4 is optimized for great density and scalability in a simple 2U enclosure with tool-less storage drives and hot-swappable fan modules, generally applicable for a wide variety of virtualization solutions, big data analysis scenarios, among others that demand better flexibility, higher performance and greater storage capability. The series presents,

Highlights -

- Ground-up AMD® EPYC™ SoC Design
- High scalability and flexibility to meet both today and future needs
- Optimized Serviceability

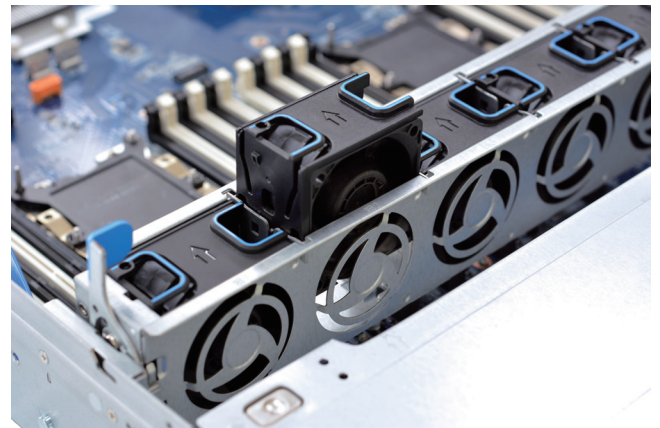
Boosted Performance and Computing Density

The dual AMD® EPYC™ processors provide up to 64 cores, 16 memory channels and 128 PCIe 3.0 lanes with SoC for a single computing node. With the industry-leading core count and the ground-up innovations, K885G4 series would not only be able to offer ideal linear scalability and demanding virtualization capacity workloads, but also accelerate the performance of memory-intensive applications.

Extending Server Capabilities without Incremental PCI Switching

Without the need for additional PCIe switches to get the PCIe lanes required, K885G4 series allows for up to six standard PCIe cards through the CPU, realizing high speed IO connectivity.

Without the need for an extra HBA, K885G4 series could directly support up to four U.2 NVMe SSDs, along with the LFF or SFF HDDs SKUs, enabling streamlined software defined and direct attached



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storage solutions, applicable for both hot and cold storage. Multiple storage options are available, including the M.2 storage options via interposer connection, and a variety of HBA/RAID storage mezzanine cards, to offer greater flexibility and capacities.

SoC Level Security

With industry's first embedded x86 silicon-level data security, K885G4 series minimize potential attack surfaces and protects software and data with AMD® Secure Root-of-Trust, AMD® Secure Run, and AMD® Secure Move Technologies.

Enterprise Business and Datacenter Applications

With the AMD® EPYC™ SoC design that bridges the gaps of existing and future datacenter requirements, K885G4 series would meet the emerging needs of today's software defined datacenters, offering a hyper-converged infrastructure with high scalability and flexibility that is generally applicable for database management and analytics, private/hybrid cloud environments, and virtualized infrastructure. ↗



ABOUT INVENTEC

Inventec Enterprise Business Group (EBG) was established in 1998 and has been focusing on the design and manufacturing of server systems. Inventec EBG is the key server system supplier of the global branding clients.

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Model Name	K885G4
Positioning	Standard
Form Factor	2U1N rack mount with slide rail
Processor	Dual Socket; AMD® EPYC™ Processor Family
Memory Slot	32x DDR4 DIMM slot
Chipset	SoC, supporting 128 PCIe Gen3 lanes
Disk Drive Bay	Front primary bays: Option1: 8x 3.5" SATA + 4x NVMe hot-plug drive Option2: 24x 2.5" SATA (including 4x NVMe) hot-plug drive Optional 2x M.2 NVMe/SATA socket Rear SSD bays: 2x 2.5" SATA hot-plug drive
Expansion Slot	2x PCIe Gen 3 x16 slot (FHFL) 2x PCIe Gen 3 x8 slot (FHFL) 2x PCIe Gen 3 x8 slot (Low Profile) 1x PCIe Gen3 OCP 2.0 A+B NIC mezz 1x Inventec Storage mezz
Network Controller	Supporting 10GbE/25GbE standard PCIe card Supporting 10GbE/25GbE Mezz card Inventec network OCP mezz card options: Option1: NIC-I350-1GDC (Dual port 1Gb RJ-45) Option2: NIC-I599-10GD (Dual port 10Gb SFP+) Option3: NIC-I540-10GDC (Dual port 10Gb RJ-45)
Storage Controller	Native support from CPU 24x SATA 6.0Gb/s port 4x NVMe port 2x SATADOM 2x optional M.2 SATA or NVMe Inventec storage mezz card options: Option1: SAS3-3324-24i (12Gb/s, RAID)
System Management	IPMI 2.0 compliant+ KVM with Dedicated LAN
TPM	2.0
Power Supply	1+1 redundancy Option1: 1600W Platinum Option2: 800W Platinum
Fan	N+1 redundancy 6x 6038 hot-swap fan