

Inventec® at core

Affordable Hyper-Converged Infrastructure



K885G4 - Value Performance Server

As an alternative value 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
- Best cost performance ratio for mainstream applications
- 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 with up to 100GbE networking support.

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



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EPYC

streamlined software defined and direct attached 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 in best cost performance ratio 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/Mainstream
Form Factor	2U1N rack mount with slide rail
Processor	Up to 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: 12x 3.5" SATA (including 4x NVMe) Option2: 24x 2.5" SATA (including 4x NVMe) Optional 2x M.2 socket Rear SSD bays: 2x 2.5" 7mm SATA hot-plug solid state 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 x8 storage mezz card 1x PCIe Gen3 x16 OCP NIC
Network Controller	Supporting 25GbE/50GbE/100GbE 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	Onboard: 24x SATA 6Gb/s port 2x SATADOM Supporting 2x M.2 NVMe or SATA Inventec storage mezz card options: Option1: SAS3-3008-8i (12Gb/s) Option2: SAS3-3216-16i (12Gb/s) Option3: SAS3-3224-24i (12Gb/s) Option4: SAS3-3316-16i (12Gb/s, RAID) Option5: SAS3-3324-24i (12Gb/s, RAID) Option6: SAS3-3508-8i (12Gb/s, RAID)
System Management	IPMI 2.0 compliant+ KVM with Dedicated LAN Supporting Micro SD card
TPM	2.0
Power Supply	1+1 redundancy Option1: 1600W (220V) Platinum Option2: 800W (110V) Platinum
Fan	N+1 redundancy 6x 6038 hot-swap fan