

Inventec® at core

Maximize IT Opportunity!



P47G4 - HPC/GPU Server System

The P47G4 server series feature a 2U, single-socket HPC (high performance computing) server system equipped with latest AMD® EPYC™ Processor Family that fits up to 4 accelerators. This allows P47G4 to deliver up to 100 teraflops of FP16 compute performance in lower acquisition costs, without compromising performance and features of a traditional 2 socket system, presenting unmatched compute, memory, IO and security capabilities to accelerate mission critical applications. P47G4 could perfectly meet the emerging scale-out demands of datacenter and HPC markets with increasing utilization, enabling organizations to right-size for key datacenter/HPC workloads in lower TCO. The series present,

-  Affordability
-  Density
-  Performance
-  Scalability

Optimized High Performance

A single AMD® EPYC™ processor provides up to 32 cores, 8 memory channels and 128 PCIe 3.0 lanes. With the industry-leading core count, more VMs and more robustly configured VMs per server are enabled than ever. Whether deploying a single server, implementing a private cloud or enabling a hybrid cloud, P47G4 series strike the perfect balance of cores/threads, memory, IO bandwidth and security to deliver excellent performance for many HPC workloads.

High Scalability

P47G4 series enable up to 4 dedicated GPUs in a single-socket server with peer-to-peer communication through the CPU. No more dual sockets or PCIe switches are required to achieve this level of GPU density.



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PCI
EXPRESS
DDR-4

80
PLUS
PLATINUM

EPYC

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The series could further support up to 8 SATA drives, or 6 SATA with 2 U.2 NVMe drives without any extra attachment of HBA cards; meanwhile, two onboard M.2 NVMe disks are supported.

SoC-level Security

With industry's first embedded x86 silicon-level data security, P47G4 series minimize potential attack surfaces and protects software and data with AMD® Secure Root-of-Trust, AMD® Secure Run, and AMD® Secure Move Technologies.

Single Socket Server Cost Benefits for Enterprise Business and Datacenter Applications

Buy only what you need to support your critical missions. P47G4 series are specialized in VDI and AI (deep learning) arena, applicable for High-Performance-Computing, Cloud, Virtualized IT, Machine Learning, as well as Big Data. Right-size your server and datacenter, without extra CPU or socket, no additional heat sink or redundant connectivity components now with P47G4 server systems! ➔



Model Name	P47G4
Positioning	HPC/GPU
Form Factor	2U1N rack mount with slide rail
Processor	Single Socket; AMD® EPYC™ Processor Family
Memory Slot	16x DDR4 DIMM slot
Chipset	SoC, supporting 128 PCIe Gen3 lanes
Storage Controller	Onboard: Up to 8x SATA3 (6Gbps) port Up to 2x U.2 NVMe support Up to 2x M.2 NVMe support
Network Controller	Supporting 10GbE/25GbE/100GbE Mezz card
Expansion Slot	4x PCIe Gen3 x16 standard slot for GPU (Double-wide, FHFL) 1x PCIe Gen3 x16 for 100G NIC/IB (FHHL) 1x OCP 2.0 A+B slot for 100G NIC/IB (Front access, Option)
Disk Drive Bay	Front Primary Bay: Option1: 8x 2.5" SATA3-6Gbps hot-plug HDD Option2: 6x 2.5" SATA3-6Gbps hot-plug HDD + 2x NVMe SSD Supporting 2x M.2 socket
System Management	IPMI 2.0 compliant
TPM	2.0
Power Supply	1+1 redundancy Option1: 1600W (220V) Platinum Option2: 2000W (220V) Platinum
Fan	5+1 redundancy 6056 hot-swap fan

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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