



P90G6

A Powerful Platform for AI and HPC Applications

Highlights

- **Modular architecture to provide customers with the best performance platform**
- **Support 4th and 5th Gen Intel® Xeon® Scalable Processor**
- **Support up to 10 active or passive GPU Cards**
- **DDR5 and PCIe Gen5 ready platform**
- **Best GPU Communication with NVIDIA® NVLink™ Bridge**
- **Inventec-designed switchboard provides maximum bandwidth for GPU direct RDMA**
- **3200W/ 2700W/ 2400W CRPS 2+2 / 3+1 Redundancy**
- **Offer powerful thermal solutions, CPU up to 400W, GPU up to 450W**



Artificial intelligence (AI) applications have become the most popular topic worldwide, with both large technology companies and startups concentrating on AI products and applications. Each company prioritizes figuring out how to achieve its respective goals. The Inventec P90G6 is designed with a focus on energy efficiency and stability, delivering reliable performance in high-density computing environments. It is a highly flexible and comprehensively designed AI server, specifically crafted for applications requiring high-density computing, such as deep learning and data analysis.

An Outstanding Flexible 4U AI Server

P90G6's outstanding computing performance is based on adopting 4th and 5th Gen Intel® Xeon® Processor, and supporting up to 10 active or passive GPUs to offer an extremely flexible system for our customers. Furthermore, Inventec offers different thermal SKUs including Air-Cooling and Liquid-Cooling solutions and multiple power solutions (CRPS 2+2 or 3+1 redundancy) to apply the most efficient performance.

Comprehensively Considerate Design

Through NVIDIA® NVLink™ Bridge Inventec P90G6 has the best GPU communication between the GPUs. Additionally, Inventec provides two options for bridging the CPUs and GPUs: the Inventec-designed switchboard and the direct-board. The switchboard configuration adopts an East-West and North-South traffic-separated network architecture, where the East-West configuration supports up to four network cards with a maximum of 400Gb for the computing network, supporting RDMA technologies such as InfiniBand and RoCE.

This allows for horizontal scaling of the GPU cluster network, providing maximum bandwidth for communication performance and computational power needs. Moreover, P90G6 equips a comprehensive remote managing and monitoring system to help our customers monitor the system's health status. Also, Inventec supports customized services for baseboard management controllers (BMC) to fulfill diverse customers' needs.

Great Serviceability with the Modular and Tool-less Design

Inventec designs P90G6 with modular, and tool-less to give a comfortable maintenance experience for our customers. Especially, the P90G6 separates the Host node and the GPU node and creates several modules for the key parts, such as fans, power supply, NICs, and others, that give our customers a much more comfortable way to maintain the specific parts.



P90G6 | 4U AI Server

Positioning	EIA 310, 19", 4U
Form Factor	4U Rackmount W x H x D: 447x 175 x 800mm (17.59x 6.8x 31.4inch)
GPU	Active or passive GPUs, Up to 450W
Motherboard	4th and 5th Gen Intel® Xeon® Scalable Processor, up to 385W
System I/O	Front: Up to 24SFF or 12LFF Rear: 1. Option 1: 1x OCP 3.0 Option 2: 1xFHHLSW 2. Option 1: 10x FHFLDW GPU+1x FHHLSW Option 2: 8x FHFLDW GPU+5x FHHLSW
Power Supply	CRPS 3200W/ 2700W/ 2400W CRPS 2+2 / 3+1 Redundancy
Fan	Up to 10x8056

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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