IBM Power System IC922

An accelerated inference server engineered to put your AI models to work

Highlights

- Advanced IO and memory bandwidth to quickly move from data to insights
- AI optimized hardware and software stack
- Modular and scalable with business needs
- Enterprise-class security and support for your AI journey

As organizations progress in their AI journey, AI initiatives shift from the training to the inference stage. AI demands different infrastructure requirements at different stages, and an all-purpose AI server might not be the most appropriate for both training and inference. Organizations must evaluate their IT infrastructure, ensuring it is appropriate for every stage of AI, or they risk having an unsuccessful AI project.

Engineered for AI inference, IBM Power System IC922 provides the compute-intensive and low-latency infrastructure needed to unlock business insights from trained AI models. POWER9-based, Power IC922 provides advanced interconnects (PCIe Gen4, OpenCAPI) to support faster data throughput and decreased latency. Accelerated, the Power IC922 supports up to six NVIDIA® T4 GPUs.

Inference demands AI models to be readily accessible in storage or memory for quick access. Storage-rich, Power IC922 has a max peak memory bandwidth of 170GB/s per socket, coupled with up to 24 SAS/SATA drives in a 2U system.

AI is a complex workload and requires a cohesive AI stack. With Power IC922, leverage AI optimized POWER9 hardware and software that integrates with the Power AC922 training platform. Train your models on the Power AC922 and pass the models along to inference on the Power IC922.

The modular design of the Power IC922 allows organizations to scale infrastructure to meet business needs whether on-premises or in a private cloud environment, all with enterprise-class support.

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Power System IC922 (9183-22X) at a glance

System Configuration	
Microprocessors	2x POWER9; 12, 16 or 20-cores
Level 2 (L2) cache	512k
Level 3 (L3) cache	10 MB
RAM (memory)	Up to 2 TB, memory bandwidth is maximized with quantity of 16, 32 DDR4 RDIMM Slots available
Internal disk storage	24 x SFF (2.5”) drive bays
Processor-to-memory bandwidth	340 GB/s per system
L2 to L3 cache bandwidth	7 TB/s on chip bandwidth
Adapter slots	• Up to 6 NVIDIA T4 GPU Accelerator • 2x PCIe x16 3.0 FHFL slots (supports double-width accelerator) • 2x PCIe x16 4.0 LP slots • 2x PCIe x8 3.0 FHFL slots (physically x16) • 2x PCIe x8 3.0 FHFL slots • 2x PCIe x16 3.0 LP slots
Standard features	
I/O ports	• 2x USB 3.0 2x 1 Gb Eth, VGA • 1x 1 Gb dedicated for BMC
POWER Hypervisor	Baremetal
RAS features	• Processor instruction retry • Selective dynamic firmware updates • Chip kill memory • ECC L2 cache, L3 cache • Service processor with fault monitoring • Concurrent Maintenance disks • Redundant Hot plug Power • Redundant Hot plug fans • Customer Install and Repair • Simplified Op Panel • In-rack system service
Operating systems	Red Hat Enterprise Linux 7.6-alt
Power requirements	220 V
System dimensions	• Width: 436 mm (17.2 in.) • Depth: 820 mm (32.3 in.) • Height: 86 mm (3.4 in.) • Weight: 30.9 kg (68 lbs.)
Warranty	3-year limited warranty, CRU (customer replaceable unit) for all other units (varies by country) next business day 9am to 5pm (excluding holidays), warranty service upgrades and maintenance are available.

Why IBM?

For over a century, IBM has pioneered technologies and provided services that help companies manage and mine their valuable business data. And now IBM is helping customers adopt AI. From early machine learning systems in IBM Research, to Watson on Jeopardy, AI isn't just a buzzword. IBM provides a flexible and comprehensive range of technology and services needed for an enterprises entire journey to AI.

Next steps

→ https://www.ibm.com/marketplace/power-system-ic922

For more information

To learn more about the IBM Power System IC922 please contact your IBM representative or IBM Business Partner, or visit the following website: https://www.ibm.com/marketplace/power-system-ic922

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