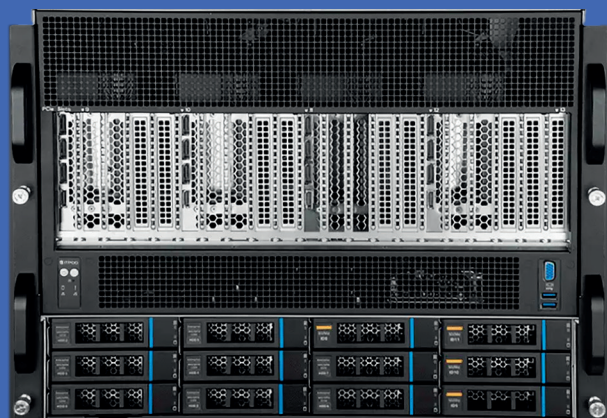


ITPOD servers

A New Era for Complex AI Workloads



ITPOD-SY8108G-D12R-G4



AI or Die

Your Competition Already Decided

Engineered for extreme performance and massive scalability, the ITPOD-SY8108G-D12R-G4 is a Air-Cooled powerhouse 8U server designed to dominate Generative AI inference, AI Agents and high-performance computing (HPC) workloads.

Built for enterprises pushing the boundaries of innovation: exceptional flexibility and reliability with outstanding cost-efficiency.

8U Air-Cooling High-Performance Form Factor

Optimized for maximum GPU density and thermal efficiency — ideal for AI data centers and HPC clusters — even on a tight budget.

Intel Xeon Scalable Gen5 CPUs

Deliver exceptional compute power based on 128 cores for system coordination, data preprocessing, and parallel task management.

Support for 8 High-Power GPUs

Eight PCIe 5.0 x16 slots with support for 600W cards.

Tested with **NVIDIA RTX 5090** (32GB) with quad-fan coolers and heatsink.

Scalable, High-Speed Storage

12 universal front bays for 2.5"/3.5" SATA/SAS/NVMe drives (hot-swap) for fast boot, caching and local dataset handling.

Enterprise-Grade Power & Cooling

8 × 2200W / 2700W hot-swap AC PSUs
(4+4 or 6+2 redundancy)

Advanced cooling: 6 × 60x56mm + 6 × 120x38mm
high-reliability fans

Ensures 24/7 uptime and thermal stability
under full load

Key Benefits



For Enterprises & SMBs

AI at Scale

Powering fine-tuning, inference, and RAG (up to 70B parameters), alongside mixed workloads: data analytics, simulations, and FP32 HPC – all on a single platform.

Future-Ready Design

Fully tested with the most powerful GeForce GPU ever made RTX 5090 – stay ahead of the curve

Mission-Critical Reliability

Redundant power, hot-swap storage, and advanced cooling for uninterrupted operation

High Bandwidth Architecture

DDR5 5600MT/s –memory and PCIe 5.0 ensure zero bottlenecks



Worldwide AI Superiority

Cost-Effective, High-Demand Products

ITPOD delivers competitive, scalable solutions in global AI demand

Easy Deployment & Support

Pre-tested configurations, remote diagnostics, and detailed setup guides

Local Warranty & Spare Parts

Stocked in UAE and our worldwide locations – fast RMA and customer satisfaction

Ideal for your AI Factory

Perfect for building private AI clouds and Data Center Refresh with <20kW Rack

ITPOD specialists will help design a custom architecture for your needs, select optimal GPU server configurations, and calculate requirements for energy efficiency and fault tolerance.

info@itpod.com +971 43 583 090



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