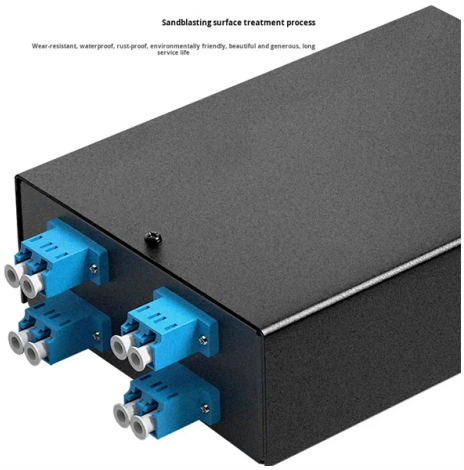
New Zealand AI Server 400G



Overview

AI servers accelerate model training and real-time inference, delivering powerful computing with CPUs, GPUs, and specialized AI accelerators.

Key Takeaways

High-performance AI servers in New Zealand now support 400G Ethernet, enabling scalable AI clusters with advanced GPU and CPU configurations.

AI Server Platforms in New Zealand

Several vendors provide AI-optimized servers capable of handling 400G networking for demanding AI workloads: DiGiCOR offers AI servers designed for deep learning, machine learning, and HPC workloads. Their platforms focus on GPU-CPU alignment, memory optimization, and high stability for sustained AI operations, suitable for both training and inference tasks.

HP

E New Zealand provides enterprise-grade AI servers, including configurations with eight NVIDIA Blackwell Ultra (HGX B300) GPUs or AMD Instinct GPUs. These servers are engineered for large-scale AI model training, tuning, and inference, with flexibility to integrate into hybrid cloud or sovereign AI facilities.

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D Pensando Pollara 400 AI NIC-ready servers combine AMD EPYC CPUs, AMD Instinct GPUs, and the Pollara 400 fully programmable 400G Ethernet NIC, enabling high-throughput AI networking for both front-end and back-end workloads. These servers allow scalable AI clusters and can be updated over time without hardware replacement. 400G Networking InfrastructureAsterfusion CX-N series switches support 400G ports and are ideal for connecting GPU servers in AI clusters.

A single 32x400G switch can connect small-scale clusters, while larger deployments use modular CLOS fabrics for optimal GPU resource efficiency. These switches support RoCEv2 and EVPN-multihoming, ensuring low-latency, lossless networks critical for AI training and inference.

Local AI Data Center Context

New Zealand is actively expanding its AI infrastructure: Datagrid is developing a 78,000 m² AI data center near Invercargill, designed to support energy-intensive AI workloads. Amazon Web Services is investing NZ$7. 5 billion in a new cluster of data centers in Auckland, highlighting the country's growing role as a hub for AI computing.

These facilities leverage renewable energy and New Zealand's cool climate to support high-density AI servers, including 400G-capable platforms.

Summary

For organizations in New Zealand seeking 400G AI server solutions, options include: DiGiCOR for scalable, GPU-optimized AI servers.

HP

E for enterprise-grade, multi-GPU AI servers with 400G networking readiness.

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D Pollara 400 NIC-ready servers for high-throughput, programmable AI networking. Asterfusion 400G switches for low-latency, lossless interconnects in AI clusters. These platforms, combined with New Zealand's emerging AI data centers, provide a robust foundation for high-performance AI workloads, from small-scale research clusters to large multi-node AI factories.

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Article Content

AI Servers | High-Performance Infrastructure for AI Workloads by ...

Power your AI initiatives with DiGiCOR''s enterprise-grade servers. Purpose-built for deep learning, machine learning, and high-performance computing, our AI servers deliver the speed, scalability, and

Introducing the AMD Pensando™ Pollara 400 AI NIC-Ready Server

By combining proven server designs, powerful AMD compute, and Pollara 400''s fully programmable 400G Ethernet, these platforms help organizations stand up scalable AI clusters

PowerEdge AI Servers with GPU Acceleration | Dell New Zealand

Drive faster results with servers equipped with the latest multi-core processors. Leverage CPUs to deliver rapid data processing and enhanced application performance for trusted artificial intelligence

AI Server

AI servers accelerate model training and real-time inference, delivering powerful computing with CPUs, GPUs, and specialized AI accelerators. Their scalable and efficient architecture enables businesses

What is 400G? | Glossary | HPE New Zealand

Massive growth in cloud computing, AI, and 5G have driven an exponential demand for high-bandwidth, scalable solutions that can support new 400G techniques and architectures.

AI Data Center Networking: How GPU Clusters Are Changing

The numbers are staggering. A single Nvidia DGX H100 server contains eight H100 GPUs, each connected to a 400G Infiniband or Ethernet NIC — generating up to 3.2 Tbps of

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Future-Proofing New Zealand''s AI Infrastructure: A White ...

This white paper analyses the power infrastructure needed to establish New Zealand as a competitive player in the AI economy while maintaining its commitment to renewable energy.

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AMD Ryzen AI 400G Series Desktop APUs Based on 4 nm

While "Phoenix Point" is based on "Zen 4," the newer Ryzen AI 400 series is built on the "Gorgon Point" silicon powered by the "Zen 5" microarchitecture. A key difference between the two

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Create Availability Group Listener Fails with Message 19471, ''The

First published on MSDN on Oct 30, 2013 When trying to create an availability group listener, SQL Server may fail and report the following error: Create failed for Availability Group

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AI Server

AI servers provide powerful compute for training and inference, enabling scalable, efficient AI development and rapid deployment of reliable business solutions.

400G to 800G Upgrade: The Complete AI Data Center Guide

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A comprehensive guide to upgrading your AI data center infrastructure from 400G to 800G networking — covering technical specifications, business ROI, phased migration strategy,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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