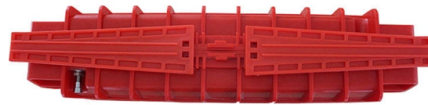


Does the Dojo supercomputer need an optical module



Overview

Tesla is building a prototype supercomputer that will be used to develop self-driving car capabilities based on optical cameras, rather than lidar or radar sensors. It went into production in July 2023. What is DOJO?

Why treat long range communication differently?

Target hardware simplicity! Target hardware simplicity! Target hardware simplicity! Target hardware simplicity! Integration and utilization of these components is the subject of the next presentation! Dojo claims 1. Dubbed Dojo, the supercomputer was announced by Andrej Karpathy, the company's head of AI, at. Well, the simplest answer would be to improve its driver assistance tech stack, which includes Autopilot and the Full Self-Driving (FSD) bundle. Well, all of that real-world image capture. Why a custom transport protocol?

1. Vertical Integration — extend Dojo RDMA onto optical fabric 2. Use 3rd party hardware — Ethernet II frames "Just Work" TCP got it right —just do it in hardware Dojo OSI Layers TCP/IP. Designed to process exabytes of raw video data from Tesla's global fleet, Dojo promises to accelerate Full Self-Driving (FSD) model training by orders of magnitude, enabling faster iteration cycles and more robust neural networks.

Article Content

Dojo supercomputer explained: How Tesla plans to beat Nvidia at AI ...

This article dives deep into the origins, purpose, architecture, and future implications of the Dojo supercomputer—and why this might be Tesla's most pivotal innovation yet.

Tesla Unveils Dojo Supercomputer Prototype for Vision-centric ...

Tesla is building a prototype supercomputer that will be used to develop self-driving car capabilities based on optical cameras, rather than lidar or radar sensors.

Hot Chips 34 - Tesla's Dojo Microarchitecture

The microarchitecture behind Tesla's Dojo supercomputer shows how it's possible to achieve very high compute density, while still maintaining a CPU's ability to perform well with ...

Tesla's Dojo Supercomputer: A Paradigm Shift in Supercomputing?

In summary, Dojo's advent signals a shift in the supercomputing paradigm, one that leans toward edge-driven, vertical integration, specialization, and scalable architecture.

How Tesla's Dojo Supercomputer is Revolutionizing AI Training for ...

From my vantage point, the Dojo supercomputer isn't just an internal tool for Tesla—it's a blueprint for how vertically integrated companies can leverage custom hardware, software, and data ...

How Tesla's Dojo Supercomputer is Revolutionizing AI ...

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Everything To Know About Tesla's Dojo Supercomputer

"This chip is like a GPU-level computer with a CPU-level flexibility and twice the network chip-level I/O bandwidth," said Tesla's Dojo project lead Ganesh Venkataramanan at the AI Day ...

Tesla's Dojo Supercomputer: A Paradigm Shift in ...

In summary, Dojo's advent signals a shift in the supercomputing paradigm, one that leans toward edge-driven, vertical integration, specialization, ...

Inside Tesla's Dojo: How the Supercomputer Drives FSD and

The core of Dojo is its custom D1 chip, a custom processor optimized for training neural networks. These D1 chips are grouped together into puzzle pieces called “tiles” for even more power.

The Microarchitecture of Tesla's Exa-Scale Computer

Why treat long range communication differently? Target hardware simplicity!
Integration and utilization of these components is the subject of the next presentation!

Tesla-Dojo-Hot-Chips-2024 Page 02

TTPoE Tesla Transport Protocol over Ethernet (TTPoE) is a peer-to-peer ethernet Transport Layer Protocol executed entirely in hardware. Why a custom transport protocol? 1. Vertical Integration — ...

Tesla Dojo

"Elon Musk restarts Dojo3 "space" supercomputer project as AI5 chip design gets in "good shape" — will be first Tesla-built supercomputer to feature all-in-house hardware, with no help from Nvidia".

Contact Us

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