Open Networking Solution For AI

Solution Background

AI training is very costly in matter of time and resources, low-efficiency network solutions are unacceptable for the AI industry. Low efficiency means——

Poor scalability
- Insufficient scale
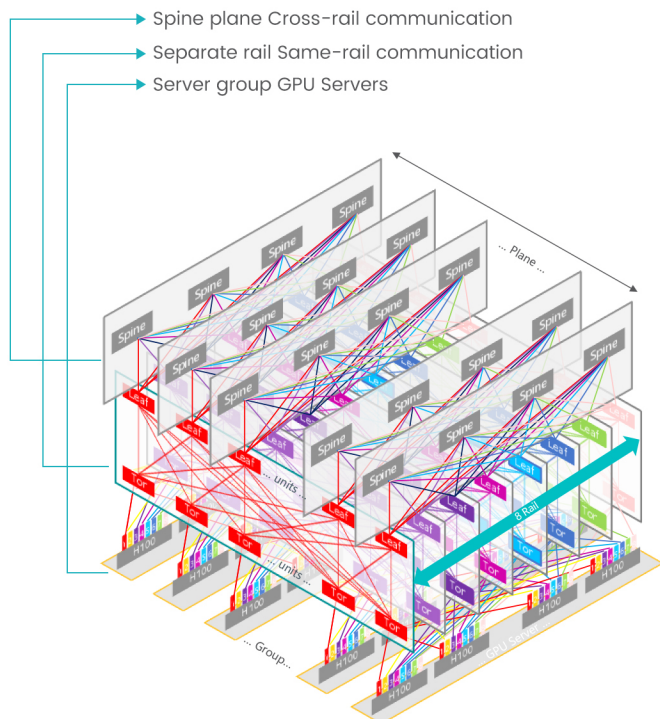- Poor potential for future scaling out

Insufficient throughput
- Low bandwidth
- High latency
- High packet loss

"Difficult NOS"
- No interface to AI Infrastructure management platform
- Uncustomizable features

Our Solution

Multi-Rail Networking Architecture for GPU Computing

→ Spine plane Cross-rail communication
→ Separate rail Same-rail communication
→ Server group GPU Servers

High throughput large scale networking

M2-W6940-128QC

- Throughput/unit : 102.4Tbps
- SW Port：128 x 400GbE QSFP112
- SW SerDes：112GbE

M2-W6930-64QC

- Throughput/unit : 51.2Tbps
- SW Port：64 x 400GbE QSFP-DD
- SW SerDes：56GbE

M2-W6940-64OC

- Throughput/unit : 102.4Tbps
- SW Port：64 x 800GbE OSFP
- SW SerDes：112GbE

M2-W6920-32QC2X

- Throughput/unit : 25.6Tbps
- SW Port：：32 x 400GbE QSFP-DD + 2 x 10G SPF+
- SW SerDes：56GbE

Network architecture : multi-track architecture
2-level : Max 8K GPU   3-level : Max 32K GPU

Feature Highlight

Ultra Large Scale
To carry super computing power

- Based on business traffic model
- Different scales and flexible expansion
- Max support 32k 400G Port

Congestion Control(DCQCN)
RoCE V2 non-blocking transmission

- Low Latency with Kernel /CPU Bypass
- Priority Flow Control（PFC）
- Explicit Congestion Notification（ECN）

Deeply Customized Services
Support rapid and high-quality open network

- Provide customers with high quality open network based on SONiC
- Provide high-performance networks that support ultra-high computility
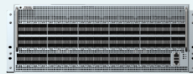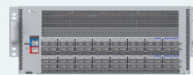- Provide a secure and controllable open network

Recommended Products

800G

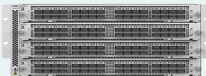M2-W6940-64OC

400G

M2-W6940-128QC

M2-W6930-64QC

M2-W6920-32QC2X

200G

M2-W6520-24DC8QC

100G

M2-W6920-4S

M2-W6510-32C

M2-W6910-64C

25G

M2-W6510-48V8C

1G

M2-W6510-48GT4V

For more information

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MiCAS
NETWORKS

Pioneering Open Network Solutions

MiCAS
NETWORKS

Micas Networks, a dynamic open networking startup headquartered in San Jose, is poised to accelerate the networking landscape.

Our mission is clear: To provide customers with a comprehensive suite of solutions encompassing products, network operating systems (NOS), extensive support, tailor-made solutions, robust supply, and efficient manufacturing to help them on their Open Networking journey.

Network Operating Systems

SONiC   DENT

Open Networking Ecosystem Partners

OPEN Compute Project   OIF   cobo MEMBER   THE LINUX FOUNDATION

Partners

BROADCOM   intel   aviz   BEYONDEDGE

Delivering Product Today

Micas Networks offers a broad and comprehensive portfolio of open networking products that supports multiple variations of SONiC and offers customizable features,.

Strong Engineering and Manufacturing

At the core of Micas Networks is an exceptional engineering and support team dedicated to providing customers with unwavering confidence. We understand that dependable infrastructure requires reliable backing. In alignment with this vision, we are expanding our factory capacity in Malaysia, reinforcing our commitment to surpassing customer expectations.

Contributing to the Open Compute Project

Micas Networks believes in contributing back to the community and works to support the Open Compute Project. Additionally, they support the Linux Foundation, and DENT. Our contributions to the advancement of these technologies underscore our dedication to propelling the industry forward and fostering collaborative progress for the greater good.