

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

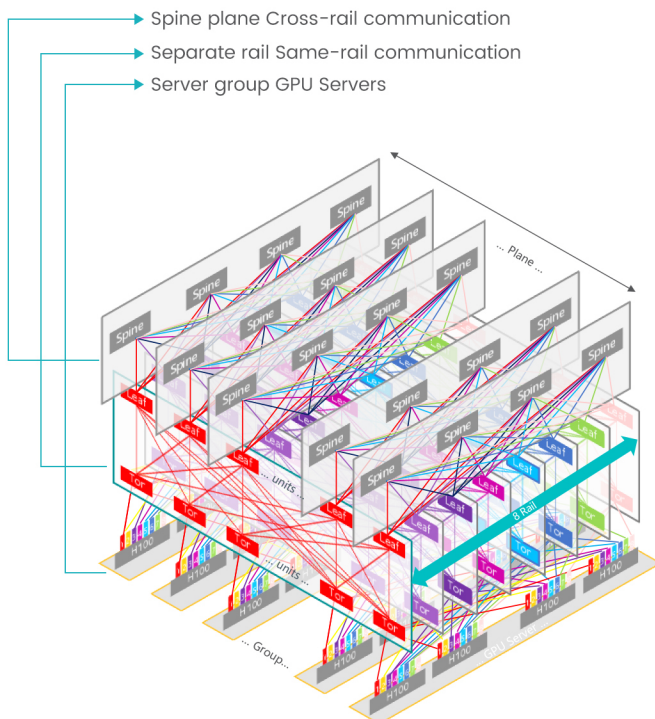
- Low bandwidth
- High latency
- High packet loss

"Difficult NOS"

- No interface to AI Infrastructure management platform
- Uncustomizable features

Our Solution

Multi-Rail Networking Architecture for GPU Computing



High throughput large scale networking

M2-W6940-64OC

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

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-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

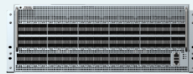
Recommended Products

800G

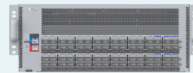


M2-W6940-640C

400G



M2-W6940-128QC



M2-W6930-64QC



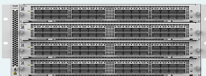
M2-W6920-32QC2X

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

Support: +1(855) 702-0551 | support@micasnetworks.com

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Micas
NETWORKS

Pioneering Open Network Solutions

Key Software Features

L2 & L3 features			
Ethernet			
Jumbo Frame	1G/10G/25G/40G/100G/200G/400G		
Link dither	Dynamic Port Breakout	FEC	
Broadcast/unicast/multicast storm	protection		
IP Statistic	LAG		
VLAN			
IEEE 802.1Q VLANs	4094 VLANs	Port-based VLANs	Trunk and Access mode
Spanning tree		MAC	
IEEE 802.1D STP	IEEE 802.1w RSTP	MAC Aging	Static Mac
Monitor Link Group	LLDP	MLAG	IGMP snooping
VXLAN	ARP Proxy	ND Proxy	VRF
Sub interface	ECMP	NAT	RoCE v2
Routing			
BGP			
BGP EVPN	BGP Graceful restart	BGP Unnumbered Links	Dynamic BGP
OSPF			
OSPFv2		OSPFv3	
VRRP	ISIS-basic	FRR 9.2	EVPN Multi-homing
Monitoring			
Mirror	EverFlow	Sflow	
BFD		Erspan	
Management			
SSH			
DHCP relay			
DCHPv4 relay		DCHPv6 relay	
Warm reboot	Fast reboot	SNMP v1/v2c/v3	SYSLOG
ZTP	NTP	Management VRF	Hardware monitor
gNMI	Restconf	Config Rollback	SCP/SFTP/FTP
Security			
User/Password protected system		TACACS	Radius
ACL			
L2/L3/L3V6/Policer/Mirror/Control		ACL trap	ACL redirect
COPP			
QOS			
DSCP based COS		802.1P based COS	DSCP remark
RDMA			
PFC	PFC-WD	ECN	WRED

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