Micas Data Center Network Solution

Solution Background

- As Internet businesses continue to grow, data centers are expanding faster than ever.
- The continuous evolution of switching chips drives rapid iterations in network bandwidth and speed.
- The diversity of business models raise higher requirements for data center networks in terms of latency, stability, and reliability.
- In large-scale data center operations, IT services prioritize rapid response to business needs, precise fault identification, and uninterrupted critical services.

DATA CENTERS TODAY DEMAND:

Network solutions supporting hyperscale clusters with continuous scalability.

Iterative solutions that prioritize compatibility for network from 25G to 400G.

Lower network latency with stability and reliability.

Visualized, automated, and refined network O&M.

Solution Highlights

- Large-scale networking and flexible
  The Clos three-tier architecture enables clustering of 10,000 to 200,000 servers and flexible Pod -based expansion.
- High-speed access and iterative compatibility
  The solution supports networking of ports at 10G, 25G, 100G, 200G and other rates, while also compatible with Pod-based hybrid networks
- High reliability and stability
  The BGP protocol is optimized, reducing fault recovery time and improving reliability. The de-stacking technologyis used to improve network stability.
- Low-latency lossless network
  The PFC+ECN technology guarantees low-latency communication protocols and zero packet loss in RDMA networks.
- Easy O&M and flexible development
  The Telemetry technology enables monitoring of critical information within seconds, while providing APIs for flexible customization and development.

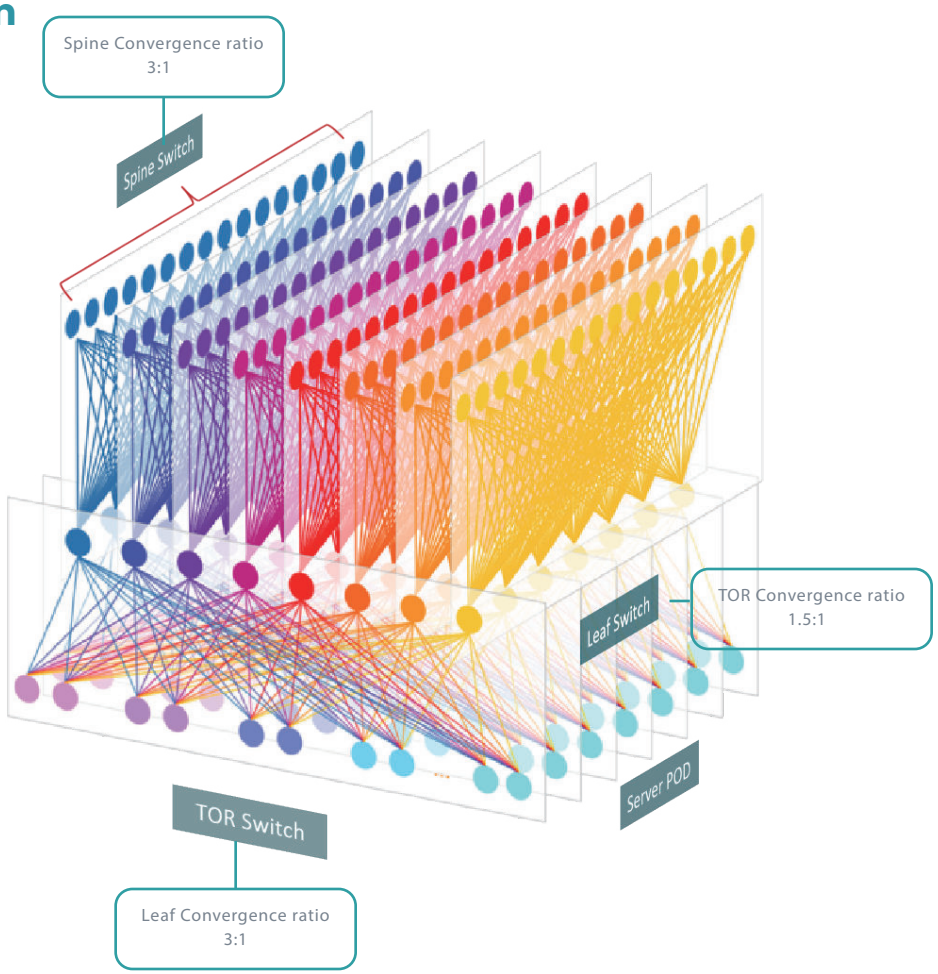
Network Architecture Diagram

200GE Port Access
Max port number: 27648
Max Pod number: 24
Max port per Pod: 1152

100GE Port Access
Max port number: 82944
Max Pod number: 48
Max port per Pod: 1728

25GE Port Access
Max port number: 221184
Max Pod number: 48
Max port per Pod: 4608

10GE Port Access
Max port number: 221184
Max Pod number: 48
Max port per Pod: 221184



Customer Benefits

Worry-free business growth
Support flexible networking based on business requirements and support converged networking with various speed iterations.

Gaining technological dividends
Provide more cloud computing resources through high-bandwidth, low-latency, and lossless network transmission.

Ensuring business continuity
A stable and reliable network and visualized automated IT O&M that protects your good reputation for cloud services.

Related Products

200GE Port Access
Spine Switch: M2-S6930-64QC
Leaf Switch: M2-S6930-64QC
TOR Switch: M2-S6520-24DC8QC

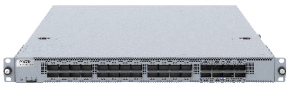
100GE Port Access
Spine Switch: M2-S6920-4S
Leaf Switch: M2-S6920-4S
TOR Switch: M2-S6510-32C

25GE Port Access
Spine Switch: M2-S6920-4S
Leaf Switch: M2-S6920-4S
TOR Switch: M2-S6510-48V8C

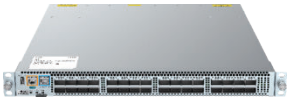
10GE Port Access
Spine Switch: M2-S6920-4S
Leaf Switch: M2-S6920-4S
TOR Switch: M2-S6510-48X8C

M2-S6930-64QC
Provides 64 x 400GbE QSFP-DD ports

M2-S6920-4S
Provides 128 x 100GbE QSFP28 ports



M2-S6520-24DC8QC
Provides 24 x 200GbE QSFP56 ports and 8 x 400GbE QSFP-DD ports (Coming soon)



M2-S6510-32C
Provides 32 x 100GbE QSFP28 ports

M2-S6510-48V8C
Provides 48 x 25GbE SFP28 ports and 8 x 100GbE QSFP28

M2-S6510-48X8C
Provides 48 x 10GbE SFP ports and 8 x 100GbE QSFP28ports

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