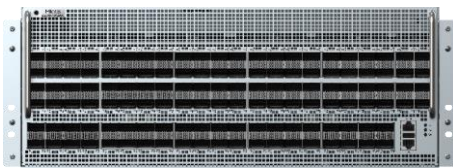


Overview

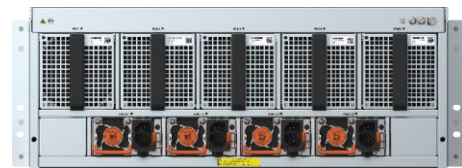
The M2-W6940-128QC data center switch offers 128-port 400GbE interface in 4 RU chassis, which delivers high performance with complete L2 and L3 forwarding features in modern large-scale data center networks.

The M2-W6940-128QC is designed for AI/ML, high-performance computing, and distributed storage applications. It provides ultra-high performance, low latency, and high reliability, and supports RoCEv2 data forwarding.

This open network switch is loaded with Open Network Install Environment (ONIE) software installer, which supports the SONiC operating system, including the community versions and the enhanced versions.



Front View



Back View

Product Highlights

First-class Performance

- 128 × QSFP112 400GbE Ports
- Up to 102.4 Tbps full duplex
- Wire speed L2 and L3 forwarding
- Lossless Ethernet, ensuring zero packet loss during RDMA E2E communication

Data Center Oriented Design

- Over 94% efficient power supplies
- 2+2 redundant & hot-swappable power supplies
- 4+1 redundant & hot-swappable fans
- Front-to-rear air cooling

Cloud Networking Ready

- Dynamic Load Balancing for advanced multi-pathing
- MAC Entries: 128K without exact match
- VLAN : 4 K
- L3 host:
 - ALPM(V4): 850K
 - ALPM(V6_64): 360K
 - ALPM(V6_128): 240K.

*The above table is the maximum capacity that the switching chip can provide.

Resilient Configuration

- Broadcom BCM78900 (Tomahawk 5)
- 165.2MB, 82.6MB per ITM
- Intel Xeon D1734NT
- DDR4 16GB
- System storage 240G

Outstanding OS Compatibility

- Loaded with Open Network Install Environment (ONIE) software installer and OpenBMC
- Compatible with software for SONiC
- Learn more about open NOS features at the Micas Networks dedicated page.

Fully-loaded Software Functions

- BGP
- Route Policies
- ARP
- Load Balance based on LAG/ECMP
- ACL
- SNMP&GRPC Restconf
- etc.

*Download SONiC DS to see all software functions.

Parameter Specifications

System Specifications	
Switch Model	M2-W6940-128QC
Ports	128×400GbE QSFP112
Console Port	1
MGMT Port	1 × RJ-45 1000BASE-T
USB Port	1
Switching Capacity	102.4 Tbps
Packets/Second	20.3 Bpps
CPU	Intel Xeon D-1734NT
System Memory	DDR4 16GB
System Storage	240GB
BMC Option	AST2520
Switch ASIC	Broadcom BCM78900(Tomahawk 5)
Packet Buffer	165.2MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	4 (2+2 redundant, hot-swappable)
Fans	5 (4+1 redundant, hot-swappable)
OS	SONiC
Airflow Options	Standard airflow
Max/Typical Power	4000W/3846W
Consumption Dimensions (W × D × H)	17.40 × 31.50 × 6.83 in. 442 × 800 × 173.6 mm, 4RU
Weight (with all modules)	94.03 lbs (42.65 kg)

Port Split	
Split Type	Support Port Speed
1 × 400G non-breakout	1 × 400G (4 lanes 100G PAM4) 1 × 200G (4 lanes 50G PAM4) 1 × 50G (2 lanes 25G NRZ)
2 × 200G breakout	2 × 200G (2 lanes 100G PAM4) 2 × 100G (2 lanes 50G PAM4)
4 × 100G breakout	4 × 100G (1 lanes 100G PAM4)

Power Supply	
Model	PA2000I-F
Input Connector	IEC 320-C14
Output Power	2000W
Input Voltage	200-240 VAC
Frequency	50-60Hz
Efficiency	80 plus Platinum
Typical Input Current	10A
Environmental Characteristics	
Operating Temperature	41 to 95°F (5 to 35°C)
Storage Temperature	-40 to 158° F (-40 to 70°C)
Operating Humidity	10% to 90% RH (Non-condensing)
Altitude (Operating)	0-16,404.20 ft. (0-5,000 m)
Standard Compliance	
EMC Standards	FCC 47 CFR Part 15 Subpart B ANSI C63.4 ICES-003 Issue 7
Safety	UL 62368-1 CAS C22.2 NO.62368-1
Certifications	FCC; IC; cTUVus
European Union Directives	-

Ordering Information

Product ID	Product Description
M2-W6940-128QC-FA	M2-W6940-128QC switch, 128 × 400GbE QSFP112 ports, with four PA2000I-F modules and five FAN80-01-F fan modules, front-to-rear airflow.
PA2000I-F	2000W AC power supply module, front-to-rear airflow
FAN80-01-F	Fan module for front-to-rear airflow

ABOUT MICAS

Micas Networks, a pioneer in open networking solutions, offers high-performance switch products and reliable services tailored for data centers.

Address: 250W Tasman Drive. San Jose

For more information, please visit. <https://micasnetworks.com> or contact your local Micas sales representative.