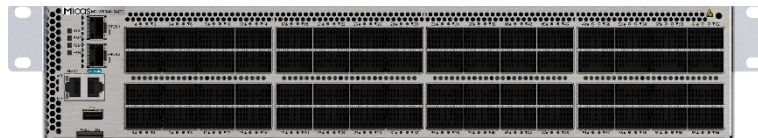


## Overview

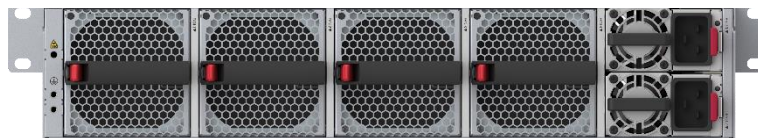
The M2-W6940-640C data center switch offers 64-port 800GbE interfaces in a 2 RU fixed box, which delivers high performance with complete L2 and L3 forwarding features in modern large-scale data center networks.

The M2-W6940-640C is designed for AI/ML, high-performance computing 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.



Front View



Back View

## Product Highlights

### First-class Performance

- 64 × OSFP 800GbE Ports
- Up to 102.4 Tbps full duplex
- Line speed L2 and L3 forwarding
- Lossless Ethernet, ensuring zero packet loss during RDMA communication

### Data Center Oriented Design

- 1+1 redundant & hot-swappable power supplies
- 3+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 32GB
- System storage 240G

### Outstanding OS Compatibility

- Loaded with Open Network Install Environment (ONIE) software installer
- 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-W6940-640C
Ports	64×800GbE OSFP
Console Port	1 × RJ-45 serial console
MGMT Port	1 × RJ-45 1000BASE-T 2 × SFP28 25G In-band management
USB Port	1×USB 2.0
Switching Capacity	102.4 Tbps
Packets/Second	20.3 Bpps
CPU	Intel Xeon D-1734NT
System Memory	DDR4 32GB
System Storage	240GB
BMC Option	AST2620
Switch ASIC	Broadcom BCM78900 (Tomahawk 5)
Packet Buffer	165.2MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	2 (1+1 redundant,hot-swappable)
Fans	4 (3+1 redundant,hot-swappable)
OS	SONiC
Airflow Options	Front to rear airflow
Max/Typical Power	2980W/1450W
Consumption Dimensions (W × D × H)	17.32 × 29.92 × 3.39 in. 440 × 760 × 86.1 mm, 2RU
Weight (with all modules)	50.7 lbs (23 kg)

Port Split	
Split Type	Support Port Speed
1 × 800G non-breakout	1 × 800G (8 lanes 100G PAM4) 1 × 400G (8 lanes 50G PAM4) 1 × 100G (4 lanes 25G NRZ) 1 × 50G (2 lanes 25G NRZ)
2 × 400G breakout	2 × 400G (4 lanes 100G PAM4) 2 × 200G (4 lanes 50G PAM4) 2 × 100G (4 lanes 25G NRZ) 2 × 50G (2 lanes 25G NRZ)
4 × 200G breakout	4 × 200G (2 lanes 100G PAM4) 4 × 100G (2 lanes 50G PAM4)
8 × 100G breakout	8 × 100G (1 lane 100G PAM4) 8 × 50G (1 lane 50G PAM4)

Power Supply	
Model	PA3000I-F
Input Connector	IEC320 C20
Output Power	3000W
Input Voltage	200-240 VAC
Frequency	50-60Hz
Efficiency	80 plus Titanium
Typical Input Current	16 A
Environmental Characteristics	
Operating Temperature	32 to 104° F (0 to 40°C)
Storage Temperature	-40 to 158° F (-40 to 70°C)
Operating Humidity	10% to 90% RH (Non-condensing)
Altitude (Operating)	0-9842 ft. (0-3,000 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-W6940-64OC-FA	M2-W6940-64OC switch, 64 × 800GbE OSFP ports, with two PA3000I-F modules and four FAN80-02-F fan modules, front-to-rear airflow.
PA3000I-F	3000W AC power supply module, front-to-rear airflow
FAN80-02-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.