

White Box Switch

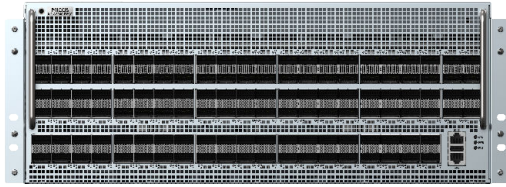
M2-W6940-128QC

Overview

The M2-W6940-128QC data center switch offers 128 x 400GbE ports 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 x 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

Resilient Configuration

- Broadcom BCM78900 (Tomahawk 5)
- 165.2MB, 82.6MB per ITM
- Intel Xeon D1734NT
- DDR4 32GB (Up to 256GB)
- System storage 240G

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 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.

Outstanding OS Compatibility

- Loaded with Open Network Install Environment (ONIE) software
- Compatible with OpenBMC
- Compatible with software for SONiC

* Download datasheet to see all software functions.

Specifications

Switch Model	M2-W6940-128QC
Ports	128x400GbE QSFP112
Max 400GbE Ports	128
Max 200GbE Ports	256
Max 100GbE Ports	512
Max 50GbE Ports	-
Max 40GbE Ports	-
Max 25GbE Ports	-
Max 10GbE Ports	-
Max 1GbE Ports	-
MGMT Ports	1
Console ports	1
USB Ports	1
Switching Capacity (FDX)	102.4 Tbps
Packets/Second	TBD
CPU	Intel Xeon D-1734NT
System Memory	DDR4 16GB (Up to 32GB)
System Storage	240GB
BMC Option	YES
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 Consumption	4000W 3846W
Dimensions (W x D x H)	17.40in. x 31.50in. x 6.83in. 442mm x 800mm x 173.6 mm 4RU 94.03lbs(42.65kg)
Weight (with all modules)	

* Standard: Front to rear

Network Operating System

This product supports SONiC, a leading open networking operating system. Micas Networks provides various SONiC offerings, including customization and integration services. Learn more about the offers at the Micas Networks dedicated page.

Power Supply

Model	PA2000I-F
Input Connector	IEC 320-C14
Output Power:	2000W
Input voltage :	200-240 VAC
Frequency	50-60 Hz
DC Input High-voltage:	50-60 Hz
DC Input Current	12A
Efficiency	94%

Standard Compliance

EMC Standards	FCC CFR Title 47, Part 15, Subpart B ICES-003 Issue 7
Safety	ANSI C63.4 EN 62368-1 IEC 62368-1
Certifications	FCC; IC; cTUVus

Environmental

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)

Order Information

Switch

Product ID

M2-W6940-128QC-FA

Product Description

M2-W6940-128QC switch, 128 × 400GbE QSFP112 ports, The switch is installed with four PA2000I-F modules and five FAN80-01-F fan modules

Fan and Power Supply

Product ID

PA2000I-F

Product Description

2000W AC power supply module, front-to-rear airflow

FAN80-01-F

Fan module for front-to-rear airflow

Products	Hardware Support			Support (OS/Firmware)	Remote Technical Support	
	Warranty Period	RMA/DOA - Return for Repair (RFR)*	Advance Hardware Replacement (AHR)*	Software Updates	TAC Support	Online Self-Services Support
M2-W6940-128QC	3 Years	9×5×15CD-Ship		✓	✓	✓

Support Service

Device maintenance service

9x5x15CD-Ship Basic RFR Service

9x5xNBD Standard AHR Service

10x7xND Silver AHR Service

24x7x4 Golden AHR Service

9x5xNBD Standard Onsite Service

10x7xND Silver Onsite Service

24x7x4 Golden Onsite Service

System integration service

Hardware Installation Service

Software & Network Configuration Service

Value-added service

Critical Moment Onsite Support

Man-day Service

For more information

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