



Front View



Back View

## Overview

The Micas M2-W6920-4S data center switch offers 128-port 100GbE interface in 4RU chassis, which delivers the highest performance combined with complete L2 and L3 forwarding feature in modern large-scale datacenter networks.

M2-W6920-4S is based on Broadcom BCM56980 (Tomahawk 3) 12.8Tbps switch ASIC with maximum port density while consuming minimum power and latency. The M2-W6920-4S switch supports latency as low as 700ns in cut-through mode, and a 64 MB packet buffer with a large shared pool allowing for superior burst absorption compared to systems with fixed port buffering. M2-W6920-4S supports industry standard 100G optics and cables. All ports allow a choice of speeds including 100GbE or 40GbE, up to 128 interfaces.

## Product Highlights

### First-class Performance

- 128 × QSFP28 100G Ports
- Up to 25.6 Tbps (full duplex)
- Up to 8 Bpps

### Resilient Configuration

- Broadcom BCM56980 (Tomahawk 3)
- Intel Xeon D-1527 Processor (Formerly Broadwell DE)
- 8GB DRAM, System storage ≥ 240GB

### Data Center Oriented Design

- Typical power of under 5W per port
- 2+2 redundant & hot-swappable power
- 5+1 redundant & hot-swappable fans

### Cloud Networking Ready

- Shared 64MB Buffer with burst absorption
- MAC Addresses: 8 K
- VLAN : 4 K

L3 Host: IPv4 UC: 6 K, IPv4 MC: 8 K, IPv6 UC: 8 K, IPv6 MC: 4 K

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

### Fully-loaded Software Functions

- BGP, route policies, ARP in host routing, load balance based on LAG/ECMP, Interface ACL, Global ACL, etc.

# Specifications

Switch Model	M2-W6920-4S
Ports	128×100GbE QSFP28
Max 100GbE Ports	128
Max 50GbE Ports	-
Max 40GbE Ports	128
Max 25GbE Ports	128
Max 10GbE Ports	128
Max 1GbE Ports	-
MGMT Port	1
Console Port	1
USB Port	1
Switching Capacity	25.6Tbps
Packets/Second	8 Bpps
CPU	Intel Xeon D-1527
System Memory	8GB (Up to 32GB)
System Storage	240GB
BMC Option	AST2520
Switch ASIC	Broadcom BCM56980(Tomahawk 3)
Packet Buffer	64MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	4 (2+2 redundant, hot-swappable)
Fans	6 (5+1 redundant, hot-swappable)
OS	SONiC
Airflow Options	Standard* airflow
Max/Typical Power Consumption	1950W/1469W
Dimensions (W x D x H)	17.40in ×28.9in ×6.3 in. 442 mm x 735 mm x 173.5 mm, 4RU
Weight (with all modules)	106.26 lbs (48.2kg)

\* 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	PA1300 I-F
Input Connector	IEC 320-C14
Output Power	1300W
Input Voltage	100–240 VAC
Typical Input Current	13.8A (100V AC ~ 127V AC) 8.5A (200V AC ~ 240V AC)
Frequency	50-60 Hz
Efficiency	94% Platinum

## 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; CB

## Environmental

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)	0–16,404.20 ft. (0–5,000 m)



# Order Information

## Switch

### Product ID

M2-W6920-4S-FA

### Product Description

M2-W6920-4S switch, 4 slots, 4\*AC power modules, 6\*fan modules, front-to-rear airflow.

Standard airflow is supported

WM6900-32C

32 × 100GbE line card

## Fan and Power Supply

### Model

P2EFAN I-F

### Product Description

Fan module, front-to-rear airflow.

PA1300 I-F

AC power supply module, 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-W6920-4S	3 Year	9x5x15CD-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

### Device maintenance service

Hardware Installation Service

Software & Network Configuration Service

### Value-added service service

Critical Moment Onsite Support

Man-day Service

## For more information

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