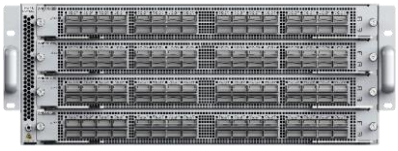
Overview

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) 12.8Tb/s 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.



Front View

Back View

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)
- DDR4 8GB
- 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
- Tool less maintenance and simple installation

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.

Product Highlights

Cloud Networking Ready

- Shared 64MB Buffer with burst absorption
- MAC entries: 8 K
- VLAN : 4 K
- L3 host entries:
  - IPv4 UC: 16 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
- 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-W6920-4S
Ports	128×100GbE QSFP28
100GbE Ports	1 × 100G(4 lanes 25G NRZ)
40GbE Ports	1 × 40G(4 lanes 10G NRZ)
Console Port	1
MGMT Port	1
USB Port	1
Switching Capacity	25.6 Tbps
Packets/Second	8 Bpps
CPU	Intel Xeon D-1527
System Memory	DDR4 8GB
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	1950W/1469W
Consumption Dimensions (W × D × H)	17.40 ×28.94 ×6.83 in. 442 × 735 × 173.5 mm, 4RU
Weight (with all modules)	106.26 lbs (48.2 kg)

Power Supply	
Model	PA1300I-F
Input Connector	IEC 320-C14
Output Power	1300W
Input Voltage	100-240 VAC
Frequency	50-60Hz
Efficiency	80 plus Platinum
Typical Input Current	12A (100 VAC ~127 VAC) 8A (200 VAC ~ 240 VAC)
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)	0-16,404.20 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 CSA C22.2 NO. 62368-1 IEC 62368-1
Certifications	FCC; IC; cTUVus; CB;
European Union Directives	-

Ordering Information

Product ID	Product Description
M2-W6920-4S-FA	M2-W6920-4S switch, 4 slots, with four PA1300I-F power modules and six P2EFAN I-F fan modules, front-to-rear airfow.
WM6900-32C	Line card, 32 × 40G/100G QSFP28 ports.
P2EFAN I-F	Fan module, front-to-rear airflow.
PA1300I-F	1300W AC power supply module, 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.

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