MICAS NETWORKS

White Box Switch

M2-W6920-4S

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×QSFP28
Max 100GbE Ports	128
Max 50GbE Ports	-
Max 40GbE Ports	128
Max 25GbE Ports	512
Max 10GbE Ports	512
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	Yes
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)	17.40×28.9×6.83 in. 442 mm x 735 mm x 173.5 mm, 4RU
Weight (with all modules)	95.9 pounds (43.5kg)

* 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 intergration services. Learn more about the offers at the Micas Networks dedicated page.

Power Supply

Model	PA1300 I-F
Input Connector	IEC 320-C13
Output Power	1300W
Input Voltage	100-240 VAC
Frequency	50-60 Hz
Effciency	94% Platinum

Standard Compliance

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

Environmental

Operating Temperature	32 to 104° F (0 to 40℃)
Storage Temperature	-40 to 158° F (-40 to 70℃)
Operating Humidity	5% to 95% RH （Non-condensing）
Altitude (Operating)	0~1800m, (1800～5000m): When the altitude increases by 220m, the maximum temperature decreases by 1℃

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Order Information

Switch

Product ID	Product Description
M2-W6920-4S-FA	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	Product Description
P2EFAN I-F	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	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

Device maintenance service
Hardware Installation Service
Software & Network Configuration Service

Value-added service service
Critical Moment Onsite Support
Man-day Service

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