

## White Box Switch

# M2-W6920-32QC2X

## Overview

The M2-W6920-32QC2X data center switch offers 32-port 400GbE interface in 1RU chassis, which delivers the highest performance combined with complete L2 and L3 forwarding feature in modern large-scale datacenter networks. Each supporting 1 x 400G QSFP56-DD, 2 x 200G (4 lanes 50G PAM4), 4 x 100G (2 lanes 50G PAM4), The M2-W6920-32QC2X can be deployed as a spine switch supporting spine to spine or spine to leaf interconnects. This open network switch is loaded with Open Network Install Environment (ONIE) software installer, which support the SONiC operating system, including the community versions and the enhanced versions.



Front View



Back View ( M2-W6920-32QC2X-FA)



Back View (M2-W6920-32QC2X-RA)

## Product Highlights

### First-class Performance

- 32 × QSFPDD 400GbE Ports
- Up to 25.6 Tbps full duplex
- Up to 8 Bpps
- Wire speed L2 and L3 forwarding

### Resilient Configuration

- Broadcom BCM56980 (Tomahawk 3)
- Intel ATOM C3758
- 8GB DRAM
- System storage 64GB

### Data Center Oriented Design

- Over 94% efficient power supplies
- 1+1 redundant & hot-swappable power supplies
- 5+1 redundant & hot-swappable fans
- Front-to-rear cooling

### Outstanding OS Compatibility

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

### Cloud Networking Ready

- Shared 64MB Buffer with burst absorption
- MAC Addresses: 8 K
- VLAN : 4 K
- L3 Host:
  - 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 to host routing
- Load Balance based on LAG/ECMP
- Interface ACL
- Global ACL
- etc.
- \* Download datasheet to see all software functions.

# Specifications

Switch Model	M2-W6920-32QC2X
Ports	32×400GbE QSFP-DD+2×10GbE SFP+
Max 400GbE Ports	32
Max 200GbE Ports	64
Max 100GbE Ports	128
Max 50GbE Ports	-
Max 40GbE Ports	-
Max 25GbE Ports	-
Max 10GbE Ports	2
Max 1GbE Ports	2
MGMT Ports	1
Console ports	1
USB Ports	1
Switching Capacity (FDX)	25.6 Tbps
Packets/Second	8 Bpps
CPU	Intel ATOM C3758
System Memory	DDR4 8GB
System Storage	64GB
BMC Option	YES
Switch ASIC	Broadcom BCM56980 (Tomahawk 3)
Packet Buffer Temperature Alarm	64MB Supports temperature alarm and overtemperature protection
Power Supplies	2 (1+1 redundant,hot-swappable) 6
Fans	(5+1 redundant,hot-swappable)
OS	SONiC
Airflow Options	Standard and reversed airflow
Max/Typical Power Consumption	1200W/900W
Dimensions (W x D x H)	17.40in. x 27.56in. x 1.72in. 442mm x 700mm x 43.6mm
Weight (with all modules)	1RU 12.42 kg (27.38 lbs.)

\* Standard: Front to rear

# Network Operating System

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

## Power Supply

Model	PA1300I-F/R
Input Connector	IEC 320-C14
Output Power:	1300W
Input voltage :	100-240 VAC
Frequency	50-60 Hz
DC Input High-voltage:	50-60 Hz
DC Input Current	13.8A (100V AC ~ 127V AC) 8.5A (200V AC ~ 240V AC)
Efficiency	94% Platinum

\* For 1 PSU input, the AC input range is: 200-240V AC

## 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	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

### Model

M2-W6920-32QC2X-FA

### Product Description

with 6 MIHFAN IV-F modules and 2 PA1300 I-F fan modules

M2-W6920-32QC2X-RA

with 6 MIHFAN IV-R modules and 2 PA1300 I-R fan modules

## Fan and Power Supply

### Model

MIHFAN IV-F

### Product Description

Fan module for front-to-rear airflow

MIHFAN IV-R

Fan module for rear-to-front airflow

PA1300 I-F

1300W AC power supply module, front-to-rear airflow

PA1300 I-R

1300W AC power supply module, rear-to-front 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-W6920-32QC2X	3 Years	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

### 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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