

Overview

The M2-S6920-32QC2X is a next-generation fixed switch with high-performance and high-density launched by Micas, tailored for the evolving application development trends in Artificial Intelligence (AI), big data, high-performance computing, and distributed storage. The M2-S6920-32QC2X can be used with the M2-S6930-64QC to meet the requirements of 400GbE spine-leaf three-tier architecture.

The M2-S6920-32QC2X adopts an advanced hardware architecture design, providing high-density 400GbE ports and operating on the HULKOS system. It supports diverse data center features and meets the networking requirements of cloud computing-era data centers.



Front View



Back View

Product Highlights

High-Density 400GbE Ports

- Provides 32 x 400GbE ports in a 1 RU chassis
- Each 400GbE port splittable into two 200GbE ports or four 100GbE ports

Automated O&M and Monitoring

- Enables active notification of switch status through gRPC
- Supports the ZTP protocol for automated deployment

Data Center Oriented Design

- Separates cold and hot air ducts, improving heat dissipation efficiency and meeting the requirements of data center equipment rooms
- Provides hardware-level redundancy, ensuring service continuity
- Delivers a power efficiency of over 94%

RDMA-based Lossless Ethernet

- Supports the RDMA feature and enables the establishment of lossless and low-latency data center Ethernet
- Supports Priority-based Flow Control (PFC) and Explicit Congestion Notification (ECN), adjusting the ECN threshold of the lossless queue intelligently based on the traffic model of the live network and ensuring zero packet loss and high throughput

Parameter Specifications

System Specifications	
Switch Model	M2-S6920-32QC2X
Ports	32 x 400G QSFP-DD+2 x 10G SFP+
Max 400GbE Ports	32
Max 200GbE Ports	64
Max 100GbE Ports	128
Max 10GbE Ports	2 (supporting future features)
Max 1GbE Ports	2 (supporting future features)
MGMT Port	1
Console Port	1
USB Port	1
Switching Capacity	25.6 Tbps
Packets/Second	8 Bpps
CPU	2.2 GHz octa-core
System Memory	8GB DDR4
System Storage	16GB(eMMC)
Packet Buffer	64MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	2(1+1 redundant ,hot-swappable)
Fans	6(5+1 redundant, hot-swappable)
OS	HULKOS
Airflow Options	Standard and reversed airflow
Max Power	1200W
Typical Power	800W for front-to-rear airflow 900W for rear to front airflow
Consumption Dimensions (W x D x H)	442 mm x 700 mm x 43.6 mm (17.40 in.X 27.56 in.X 1.72 in., 1 RU)
Weight (with all modules)	27lbs (12.25kg)

Power Supply	
Model	PA1300I-F/R
Input Connector	IEC 320-C14
Output Power	1300W
Input Voltage	100–240 V AC
Frequency	50–60 Hz
Efficiency	94% Platinum
Typical Input Current	12A (100V AC to 127V AC) 8A (200V AC to 240 V AC)
Environmental Characteristics	
Operating Temperature	32 °F to 104 °F (0 °C to 40 °C)
Storage Temperature	–40 °F to 158 °F (–40 °C 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-S6920-32QC2X-FA	M2-S6920-32QC2X switch, 32 x 400G QSFP-DD+2 x 10G SFP+, with two PA1300 I-F modules and six MIHFAN IV-F fan modules, front-to-rear airflow.
M2-S6920-32QC2X-RA	M2-S6920-32QC2X switch, 32 x 400G QSFP-DD+2 x 10G SFP+, with two PA1300 I-R modules and six MIHFAN IV-R fan modules, rear to front airflow.
MIHFAN IV-F	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.

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.