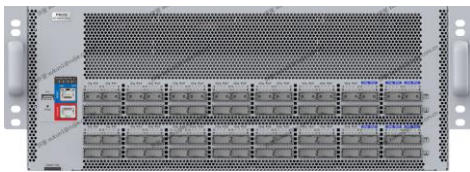
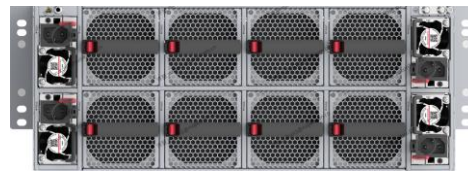


Overview

The M2-W6930-64QC data center switch offers 64-port 400GbE interface in 4RU chassis, which delivers the highest performance combined with complete L2 and L3 forwarding feature in modern large-scale datacenter networks. Each supporting 1 × 400G QSFP56-DD, 2 × 200G (4 lanes 50G PAM4), 4 × 100G (2 lanes 50G PAM4). The M2-W6930-64QC 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 and OpenBMC, which support the SONiC operating system, including the community versions and the enhanced versions.



Front View



Back View

Product Highlights

First-class Performance

- 64 × QSFP-DD 400GbE Ports
- Up to 51.2 Tbps full duplex
- Up to 10.6 Bpps
- Wire speed L2 and L3 forwarding
- Latency from 821~942ns (store and forward)
- Lossless Ethernet, ensuring zero packet loss during RDMA E2E communication

Data Center Oriented Design

- Interconnection at the distance of up to 120 km
- Over 94% efficient power supplies
- 2+2 redundant & hot-swappable power supplies
- 7+1 redundant & hot-swappable fans
- Front-to-rear cooling

Resilient Configuration

- Broadcom BCM56990 (Tomahawk 4)
- Intel Xeon D-1627 Processor (Formerly Broadwell DE)
- DDR4 16GB
- System storage ≥ 240G

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

- Dynamic Load Balancing for advanced multi-pathing
- 113.66MB Buffer; 56.83MB per ingress traffic manager
- MAC Entries: 128K without exact match
- VLAN: 4 K
- L3 host: ALPM(V4): 850K, ALPM(V6_64): 360K, ALPM(V6_128): 240K.

*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-W6930-64QC
Ports	64×400GbE QSFP-DD
Console Port	1
MGMT Port	1 × RJ-45 1000BASE-T
USB Port	1
Switching Capacity	51.2 Tbps
Packets/Second	10.6 Bpps
CPU	Intel Xeon D-1627
System Memory	16GB
System Storage	240GB
Packet Buffer	113MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	4 (2+2 redundant,hot swappable)
Fans	8 (7+1 redundant,hot swappable)
OS	SONiC
Airflow Options	Standard airflow
Max/Typical Power	2524W/1760W
Consumption Dimensions (W × D × H)	17.40 × 28.94 × 6.83 in. 442 × 735 × 173.6 mm, 4RU
Weight (with all modules)	84.88 lbs (38.5 kg)

Port Split

Split Type	Support Port Speed
1 × 400G non-breakout	1 × 400G (8 lanes 50G PAM4) 1 × 200G (4 lanes 50G PAM4) 1 × 100G (4 lanes 25G NRZ) 1 × 100G (2 lanes 50G PAM4) 1 × 40G (4 lanes 10G NRZ) 1 × 25G (1 lanes 25G NRZ) 1 × 10G (1 lanes 10G NRZ)
2 × 200G breakout	2 × 200G (4 lanes 50G PAM4) 2 × 100G (2 lanes 50G PAM4) 2 × 50G (2 lanes 25G NRZ) 2 × 40G (4 lanes 10G NRZ)
4 × 100G breakout	4 × 100G (2 lanes 50G PAM4) 4 × 25G (1 lanes 25G NRZ) 4 × 10G (1 lanes 10G NRZ)

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	12 A (100 VAC to 127 VAC) 8 A (200 VAC to 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 EN 55032 EN 55035 EN IEC 61000-3-2 EN 61000-3-3 EN 300386 BS EN 55032 BS EN 55035 BS EN IEC61000-3-2 BS EN 61000-3-3 BS EN 300386
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Standard Compliance

Safety	UL 62368-1 CSA C22.2 NO. 62368-1 IEC 62368-1 EN 62368-1 BS EN 62368-1
Certifications	FCC; IC; cTUVus; CE; CB; ANATEL; UKCA; VOC
European Union Directives	Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU Directive 2012/19/EU DIRECTIVE 2011/65/EU

Ordering Information

Product ID	Product Description
M2-W6930-64QC-FA	M2-W6930-64QC switch, 64 × 400GbE QSFP-DD ports, with four PA1300I-F modules and eight M2EFAN II-F fan modules, front-to-rear airflow.
M2EFAN II-F	Fan module for 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.