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White Box Switch

Front View

Back View
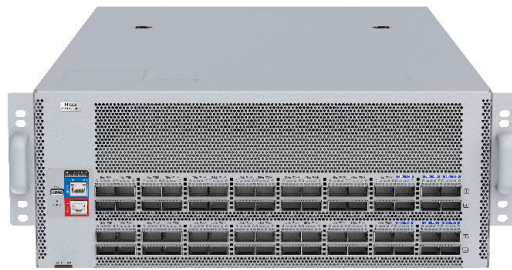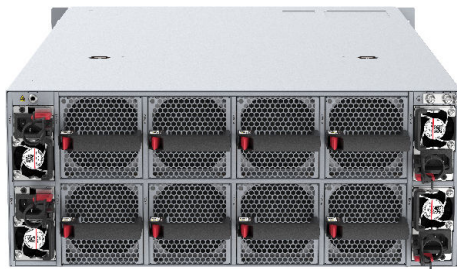
M2-W6930-64QC

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 x 400G QSFP56-DD, 2 x 200G (4 lanes 50G PAM4), 4 x 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.

Product Highlights

First-class Performance
• 64 × QSFPDD 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

Resilient Configuration
• Broadcom BCM56990 (Tomahawk 4)
• Intel Xeon D-1627 Processor (Formerly Broadwell DE)
• 8GB DRAM
• System storage≥240G

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

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.

Outstanding OS Compatibility
 • Loaded with Open Network Install Environment (ONIE) software installer and OpenBMC
 • Compatible with software for SONiC

Fully-loaded Software Functions
 • BGP
 • Route Policies
 • ARP to host routing
 • Load Balance based on LAG/ECMP
 • Interface ACL
 • Global ACL
 • etc.

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Specifications

Switch Model	M2-S6930-64QC
Ports	64×400GbE QSFP-DD
Max 400GbE Ports	64
Max 200GbE Ports	128
Max 100GbE Ports	256
Max 50GbE Ports	-
Max 40GbE Ports	-
Max 25GbE Ports	-
Max 10GbE Ports	-
Max 1GbE Ports	-
MGMT Ports	1
Console ports	1
USB Ports	1
Switching Capacity（FDX）	51.2Tbps
Packets/Second	10.6Bpps
CPU	Intel Xeon D-1627
System Memory	8GB （Up to 32GB)
System Storage	240GB
Packet Buffer	113.66MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	4 (2+2 redundant,hot swappable)
Fans	8 (7+1 redundant,hot swappable)
OS	Hulk os
Airflow Options	Standard airflow
Max/Typical Power Consumption	2524W/1760W
Dimensions (W x D x H)	17.40 × 28.9 × 6.83 in. 442 x 735 x 173.6 mm, 4RU
Weight (with all modules)	84.88lbs (38.5kg)

* 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	PA1300I-F
Input Connector	IEC 320-C13
Output Power:	1300W
Input voltage :	100-240 VAC
Frequency	50-60 Hz
DC Input High-voltage:	12-7A
DC Input Current	
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 EN BS 62368-1
Certifications	IEC 62368-1 FCC; IC; cTUVus; CE; CB; ANATEL; UKCA; VOC

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)	0~1800m, (1800～5000m): When the altitude increases by 220m, the maximum temperature decreases by 1°C

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Order Information

Switch

Product ID	Product Description
M2-W6930-64QC-FA	with four PA1300I-F modules and eight M2EFAN II-F fan modules

Fan and Power Supply

Product ID	Product Description
M2EFAN II-F	Fan module for front-to-rear airflow
PA1300I-F	1300W 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-W6930-64QC	3 Years	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

System integration service

Hardware Installation Service
Software & Network Configuration Service

Value-added service

Critical Moment Onsite Support
Man-day Service