

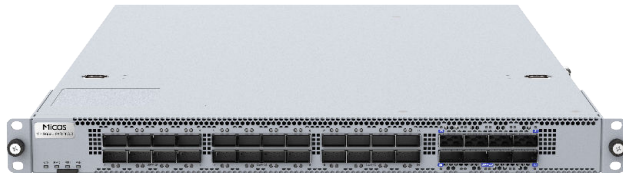
White Box Switch

M2-W6520-24DC8QC

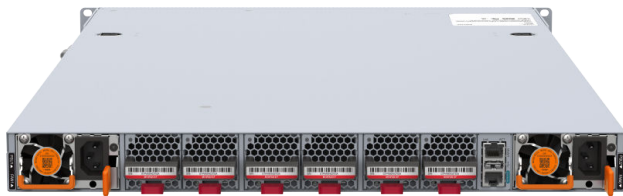
Overview

The M2-W6520-24DC8QC data center switch offers 24-port 200GbE and 8-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 400G port support 1 x 400G, 2 x 200G (4 lanes 50G), and each 200G port support 1 x 200G, 2 x 100G (2 lanes 50G).

The M2-W6520-24DC8QC can be deployed as a leaf switch supporting 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.



Front View



Back View

Product Highlights

First-class Performance

- 24 x QSFP56 200GbE Ports and 8 x QSFPDD 400GbE Ports
- Highest density 200GbE in compact 1RU
- Up to 16 Tbps full duplex
- Up to 2.66Bpps
- Wire speed L2 and L3 forwarding

Resilient Configuration

- Broadcom BCM56780 (Trident 4)
- Intel Xeon D-1627 Processor (Formerly Broadwell DE)
- 8GB DRAM
- System storage ≥ 240GB

Data Center Oriented Design

- Typical power of under 7.5W per 200GbE port
- Typical power of under 14W per 400GbE port
- Over 94% efficient power supplies
- 1+1 redundant & hot-swappable power supplies
- 5+1 redundant & hot-swappable fans
- Front-to-rear cooling

Cloud Networking Ready

- Dynamic Load Balancing for advanced multi-pathing
- Integrated high-performance 82MB SmartBuffer

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.
- * Download datasheet to see all software functions.

Specifications

Switch Model	M2-W6520-24DC8QC
Ports	24×200 G QSFP56 + 8×400 G QSFP-DD
Max 400GbE Ports	8
Max 200GbE Ports	40
Max 100GbE Ports	48
Max 50GbE Ports	-
Max 40GbE Ports	48
Max 25GbE Ports	-
Max 10GbE Ports	-
Max 1GbE Ports	-
MGMT Ports	1
Console ports	1
USB Ports	1
Switching Capacity (FDX)	16 Tbps
Packets/Second	2.74 Bpps
CPU	Intel Xeon D1627
System Memory	DDR4 16 GB (Up to 64GB)
System Storage	240 GB
BMC Option	AST2520
Switch ASIC	Broadcom BCM56780 (Trident4)
Packet Buffer	82 MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	2 (1+1 redundant, hot-swappable)
Fans	6 (5+1 redundant, hot-swappable)
OS	SONiC
Airflow Options	Standard airflow
Max/Typical Power Consumption	800 W/665 W
Dimensions (W x D x H)	17.40 x 26.41 x 1.72 in. 442 x 670.8 x 43.6 mm 1RU
Weight (with all modules)	24.25 lbs (11 kg)

* 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 integration 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
Typical Input Current	12-7A
Efficiency	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 IEC 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

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

Order Information

Switch

Model

M2-W6520-24DC8QC-FA

Product Description

24 × 200GE QSFP56 ports + 8 × 400GE QSFP-DD ports. The switch is installed with two PA1300I-F modules and six MIHFAN II-F fan modules.

Fan and Power Supply

Model

MIHFAN II-F

Product Description

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-W6520-24DC8QC	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

For more information

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