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White Box Switch
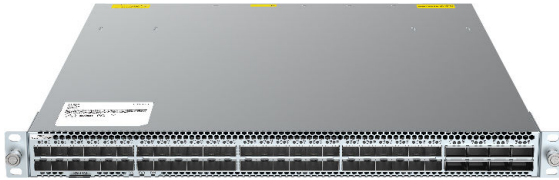
M2-W6510-48V8C

Front View

Back View (Front-to-Rear Airflow)

Overview

M2-W6510-48V8C is a new generation high performance and high density 25GbE switch designed for cloud-scale datacenter which provides a powerful cache capacity and advanced scheduling mechanism driven large scale line-rate non-blocking network.

M2-W6510-48V8C introduces 48-port fully backward-compatible 25GbE SFP28 interface and 8-port 100GbE QSFP28 interface to transparently migrate existing data center fabrics from 10Gbps and 40Gbps speeds to 25Gbps and 100Gbps. The platform provide hot-pluggable 1+1 redundancy power module and 3+1 redundancy cooling fan module to meet the high reliability requirement of datacenter and carrier networks.

Product Highlights

First-class Performance
- 32 × QSFP28 100/40GbE Ports
- Up to 6.4 Tbps (full duplex)
- Up to 2003.4 Mpps

Robust Configuration
- Broadcom BCM56870 (Trident 3)
- Intel Xeon D-1527 Processor (Formerly Broadwell DE)
- System memory 8GB DRAM(up to 32GB)
- System storage ≥240GB

Data Center Oriented Design
- Typical power of under 4W per 100GbE port
- Over 94% efficient power supplies

Cloud Networking Ready
- Shared 32MB Buffer with burst absorption
- Up to 288K MAC and 168K Host entries
- Over 324K IPv4 Routes
- Over 168K IPv6 Routes
  * The above table is the maximum capacity that the switching chip can provide.

Fully-loaded Software Functions
- BGP, route policies, ARP in host routing, load balance based on LAG/ECMP

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Specifications

Switch Model	M2-W6510-48V8C
Ports	48×25GbE SFP28 + 8×100GbE QSFP28
Max 100GbE Ports	8
Max 50GbE Ports	16
Max 40GbE Ports	8
Max 25GbE Ports	80
Max 10GbE Ports	80
Max 1GbE Ports	48
Console ports	1
USB Ports	1
Switching Capacity	4.0Tbps
Packets/Second	2003.4Mpps
CPU	Intel Xeon D-1527
System Memory	8GB (Up to 32GB)
System Storage	240GB
BMC Option	AST2520
Switch ASIC	Broadcom BCM56873 (Trident3)
Packet Buffer	32MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	2 (1+1 redundant, hot-swappable)
Fans	4 (3+1 redundant, hot-swappable)
OS	SONiC
Airflow Options	Standard* and reversed** airflow
Max/Typical Power Consumption	300W/172W
Dimensions (W x D x H)	17.40 × 22.04 × 1.73 in. 442×560×44mm, 1RU
Weight (with all modules)	32.41 lbs (14.7kg)

* Standard：Front to rear
**Reversed：Rear to front

Network Operating System

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

Power Supply

Model	PA550II-F/R
Input Connector	IEC 320-C13
Output Power:	550 W
Input voltage :	100-240 VAC
Frequency	50-60 Hz
DC Input High-voltage:	240 VDC
DC Input Current	3.6A (DC)
Effciency	94% Platinum
Typical Input Current	7.2-3.5A

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 113º F (0 to 45ºC)
Storage Temperature	-40 to 158º F (-40 to 70ºC)
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 1ºC

Order Information

Switch

Model	Product Description
M2-W6510-48V8C	M2-W6510-48V8C switch, 48×10G/25G SFP28, 8×40G/100G QSFP28, 2×AC power modules, 4×fan modules, front-to-rear airflow.
M2-W6510-48V8C-RA	M2-W6510-48V8C switch, 48×10G/25G SFP28, 8×40G/100G QSFP28, 2×AC power modules, 4×fan modules, rear-to-front airflow.

Fan and Power Supply

Model	Product Description
M1EFAN IV-F	Fan module for front-to-rear airflow.
M1EFAN IV-R	Fan module for rear-to-front airflow.
PA550II-F	AC power supply module, front-to-rear airflow.
PA550II-R	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-S6510-48V8C	3 Year	9×5×15CD-Ship		✓	✓	✓

Support Service

Micas Networks will continue to iterate the HULKOS system through continuous technical innovation. HULKOS will continuously provide customers.

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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