

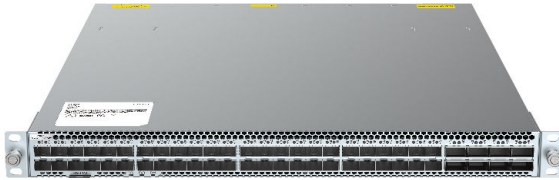
White Box Switch

M2-W6510-48V8C

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.



Front View



Back View (Front-to-Rear Airflow)



Back View (Rear-to-Front Airflow)

Product Highlights

First-class Performance

- Provides 48 × 25GbE ports and 8 × 100GbE ports
- Up to 4.0 Tbps (full duplex)
- Up to 2003.4 Mpps

Resilient Configuration

- Broadcom BCM56873 (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, Interface ACL, Global ACL, etc.

Specifications

Switch Model	M2-W6510-48V8C
Ports	48 x 25GbE SFP28+ 8x100GbE 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
MGMT Port	1
Console Port	1
USB Port	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)	17.40in x22.04in x1.7 in 442mm x560mm x43.1mm, 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 provides various SONiC offerings, including customization and integration services. Learn more about the offers at the Micas Networks dedicated page.

Power Supply

Model	PA550II-F/R	PD800I-F
Input Connector	IEC 320-C14	Three-pin DC connector
Output Power	550 W	550 W
Input Voltage	100-240 VAC	100-240 VAC
Typical Input Current	7.2-3.5A	7.2-3.5A
Frequency	50-60 Hz	50-60 Hz
Efficiency	94% Platinum	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, IEC 62368-1, EN BS 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)	0-16,404.20 ft. (0-5,000 m)

Order Information

Switch

Product ID

M2-W6510-48V8C-FA

Product Description

48×10G/25G SFP28, 8×40G/100G QSFP28, 2×AC power modules, 4×fan modules, front-to-rear airflow.

M2-W6510-48V8C-RA

48*10G/25G SFP28, 8*40G/100G QSFP28, 2*DC power modules, 4*fan modules, rear-to-front airflow.

Fan and Power Supply

Model

M1EFAN III-F

Product Description

Fan module for front-to-rear airflow.

M1EFAN III-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.

PD800I-F

DC power supply module, front-to-rear

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	9x5x15CD-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

Device maintenance service

Hardware Installation Service
 Software & Network Configuration Service

Value-added service service

Critical Moment Onsite Support
 Man-day Service

For more information

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