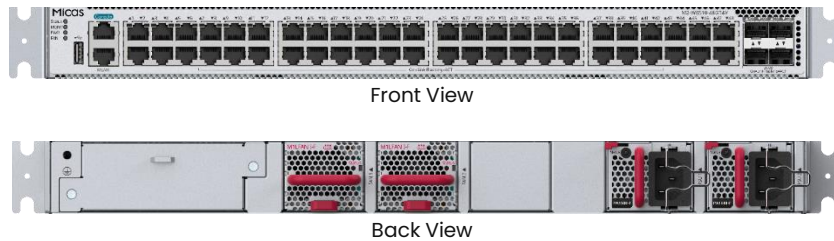


Overview

The M2-W6510-48GT4V is a Gigabit Ethernet L2 switch which offer 52 ports: 48 × 10/100/1000BASE-T ports and 4 × 10G/25G SFP28 uplink ports. The M2-W6510-48GT4V can be deployed as a management switch in data center networking, or enterprise access networking. The switch provides redundant, hot-swappable AC & DC PSUs and redundant fans with front-to-rear or rear-to-front airflow.

This open network switch is loaded with Open Network Install Environment (ONIE) software installer, which support the SONiC operating system, including the community versions and the enhanced versions.



Product Highlights

First-class Performance

- 48 × 10/100/1000 BASE-T + 4 × 25GbE SFP28
- Up to 296 Gbps (full duplex)
- Up to 220 Mpps
- Wire speed L2 and L3 forwarding

Resilient Configuration

- Broadcom BCM56274 (Trident3 X2)
- Intel ATOM C3558
- DDR4 4GB
- System storage 64GB

Data Center Oriented Design

- Over 85% efficient power supplies
- 1+1 redundant & hot-swappable power supplies
- 1+1 redundant & hot-swappable fans
- Front-to-rear and rear-to-front cooling

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.

Cloud Networking Ready

- 4MB embedded packet shared buffer
- Support for jumbo frames up to 12,288 bytes
- Up to 64K MAC entries
- L3 host entries: IPv4 32K, IPv6 16K

*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-W6510-48GT4V
Ports	48 × 10/100/1000 BASE-T + 4 × 25GbE SFP28
25GbE Ports	1 × 25G (1 lanes 25G NRZ)
10GbE Ports	1 × 10G (1 lanes 10G NRZ)
1GbE Ports	1 × 1G Ethernet (RJ-45)
Console Port	1
MGMT Port	1 × RJ-45 1000BASE-T
USB Port	1
Switching Capacity (FDX)	296 Gbps
Forwarding Performance	220 Mpps
CPU	Intel ATOM C3558
System Memory	DDR4 4GB
System Storage	64GB
BMC Option	Yes
Switch ASIC	Broadcom BCM56274 (Trident3 X2)
Packet Buffer	4MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	2 (1+1 redundant, hot-swappable)
Fans	2 (1+1 redundant, hot-swappable)
OS	SONiC
Airflow Options	Standard and reversed airflow
Max/Typical Power	120W/100W
Consumption Dimensions (W × D × H)	17.40 × 16.54 × 1.72 in. 442 × 420 × 43.6 mm, 1RU
Weight (with all modules)	13.91 lbs (6.27 kg)

Power Supply		
Model	PA150II-F/R	PD150II-F/-R
Input Connector	IEC 320-C14	2 × M4 screws
Output Power	150W	150W
Input Voltage	100 VAC to 240 VAC	-48 VDC to -60 VDC
Frequency	50Hz to 60Hz	/
Efficiency	90%	90%
Typical Input Current	3A	5A
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 CFR Title 47, Part 15, Subpart B ICES-003 Issue 7 ANSI C63.4	
Safety	UL 62368-1 CSA C22.2 NO. 62368-1	
Certifications	FCC, IC, cTUVus	
European Union Directives	-	

Ordering Information

Product ID	Product Description
M2-W6510-48GT4V-FA	M2-W6510-48GT4V switch, 48×10/100/1000BASE-T-ports + 4×25GbE SFP28 ports, with two PA150II-F modules and two MILFAN I-F fan modules, front-to-rear airflow.
M2-W6510-48GT4V-RA	M2-W6510-48GT4V switch, 48×10/100/1000BASE-T-ports + 4×25GbE SFP28 ports, with two PA150II-R modules and two MILFAN I-R fan modules, rear-to-front airflow.
M2-W6510-48GT4V-FD	M2-W6510-48GT4V switch, 48×10/100/1000BASE-T-ports + 4×25GbE SFP28 ports, with two PD150II-F modules and two MILFAN I-F fan modules, front-to-rear airflow.
M2-W6510-48GT4V-RD	M2-W6510-48GT4V switch, 48×10/100/1000BASE-T-ports + 4×25GbE SFP28 ports, with two PD150II-R modules and two MILFAN I-R fan modules, rear-to-front airflow.
MILFAN I-F	Fan module for front-to-rear airflow
MILFAN I-R	Fan module for rear-to-front airflow
PA150II-F	150W AC power supply module, front-to-rear airflow
PA150II-R	150W AC power supply module, rear-to-front airflow
PD150II-F	150W DC power supply module, front-to-rear airflow
PD150II-R	150W DC power supply module, rear-to-front airflow

ABOUT MICAS

Micas Networks, a pioneer in open networking solutions, offers high-performance switch products and reliable services tailored for data centers.

Address: 250W Tasman Drive. San Jose

For more information, please visit. <https://micasnetworks.com> or contact your local Micas sales representative.