

White Box Switch

M2-W6510-48GT4V

Overview

The M2-W6510-48GT4V is a Gigabit Ethernet L2 switch which offer 52 ports: 48 x 10/100/1000BASE-T ports and 4 x 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.



Front View



Back View (M2-W6510-48GT4V-FA)



Back View (M2-W6510-48GT4V-RA)



Back View (M2-W6510-48GT4V-FD)



Back View (M2-W6510-48GT4V-RD)

Product Highlights

First-class Performance

- 48x10/100/1000 BASE-T+ 4x25GE SFP28
- Up to 296 Gbps (full duplex)
- Up to 578 Mpps
- Wire speed L2 and L3 forwarding

Resilient Configuration

- Broadcom BCM56274 (Trident3 X2)
- Intel ATOM C3558
- DDR4 4GB (Up to 8GB)
- 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
- Front-to-rear cooling

Cloud Networking Ready

- 4MB embedded packet shared buffer
- Support for jumbo frames up to 12,288 bytes
- Up to 64K MAC entries
- L3 hosts: IPv4 32K, IPv6 16K;
- * 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
- Compatible with software for SONiC

Specifications

| | |
|----------------------------------|---|
| Switch Model | M2-W6510-48GT4V |
| Ports | 48×10/100/1000 BASE-T + 4×25GbE SFP28 |
| Max 400GbE Ports | - |
| Max 200GbE Ports | - |
| Max 100GbE Ports | - |
| Max 50GbE Ports | - |
| Max 40GbE Ports | - |
| Max 25GbE Ports | 4 |
| Max 10GbE Ports | 4 |
| Max 1GbE Ports | 48 |
| MGMT Ports | 1 |
| Console ports | 1 |
| USB Ports | 1 |
| Switching Capacity (FDX) | 296 Gbps |
| Packets/Second | 578 Mpps |
| CPU | Intel ATOM C3558 |
| System Memory | DDR4 4GB (Up to 8GB) |
| 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 Consumption | 120 W/100 W |
| Dimensions (W x D x H) | 17.40 in. *16.54 in. *1.72 in. 442mm*420mm*43.6mm 1RU |
| Weight (with all modules) | 13.22lbs(6kg) |

* 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 | PA150II-F/R | PD150II-F/-R |
| Input Connector | IEC 320-C14 | 2*M4 Screw |
| Output Power: | 150W | 150W |
| Input voltage : | 100-240 VAC | -48~-60Vdc |
| Frequency | 50-60 Hz | / |
| Typical Input Current | 3A | 5A |
| Efficiency | 90% | 90% |

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- |
| Certifications | FCC; IC; cTUVus1 |
| European Union Directives | / |

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

Model

M2-W6510-48GT4V-FA
 M2-W6510-48GT4V-RA
 M2-W6510-48GT4V-FD
 M2-W6510-48GT4V-RD

Product Description

With two MILFAN I-F fan modules and two PA150II-F PSU modules
 With two MILFAN I-R fan modules and two PA150II-R PSU modules
 With two MILFAN I-F fan modules and two PD150II-F PSU modules
 With two MILFAN I-R fan modules and two PD150II-R PSU modules

Fan and Power Supply

Model

MILFAN I-F
 MILFAN I-R

Product Description

Fan module for front-to-rear airflow
 Fan module for rear-to-front airflow

PA150II-F
 PA150II-R
 PD150II-F
 PD150II-R

150W AC power supply module, front-to-rear airflow
 150W AC power supply module, rear-to-front airflow
 150W DC power supply module, front-to-rear airflow
 150W DC 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-W6510-48GT4V | 3 Years | 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

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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