Overview

The M2-W6510-32C is a 32-port 100 GbE QSFP28 switch designed for carrier/enterprise aggregation, data center top-of-rack/spine networks. It provides 1 management port, 1 console port, 1 USB port and 5 fan slots, which supports 4+1 fan redundancy. The device operates in the ambient temperature of 0°C to 40°C and supports the forward and reversed airflow.

M2-W6510-32C uses the BCM56870 chip and offers a maximum switching bandwidth of up to 6.4Tbps.

Front View

Back View

Product Highlights

First-class Performance

- 32 × QSFP28 100GbE Ports
- Up to 6.4 Tbps (full duplex)
- Up to 2003.4 Mpps

Resilient Configuration

- Broadcom BCM56870 (Trident 3)
- Intel Xeon D-1527 Processor (Formerly Broadwell DE)
- DDR4 8GB
- System storage ≥240GB

Data Center Oriented Design

- Typical power of under 4W per 100GbE port
- Over 94% efficient power supplies
- Tool less maintenance and simple installation

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

- 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
- 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-W6510-32C
Ports	32×100GbE QSFP28
Console Port	1
MGMT Port	1 × RJ-45 1000BASE-T
USB Port	1
Switching Capacity	6.4 Tbps
Packets/Second	2003.4 Mpps
CPU	Intel Xeon D-1527
System Memory	DDR4 8GB
System Storage	240GB
BMC Option	AST2520
Switch ASIC	Broadcom BCM56870 (Trident3)
Packet Buffer	32MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	2 (1+1 redundant, hot-swappable)
Fans	5 (4+1 redundant, hot-swappable)
OS	SONiC
Airflow Options	Standard and reversed airflow
Max/Typical Power	450W/270W
Consumption Dimensions (W × D × H)	17.40 × 22.05 × 1.73 in. 442 × 560 × 44 mm, 1RU
Weight (with all modules)	31.97 lbs (14.5 kg)

Port Split	
Split Type	Support Port Speed
1 × 100G non-breakout	1 × 100G (4 lanes 25G NRZ) 1 × 50G (2 lanes 25G NRZ) 1 × 40G (4 lanes 10G NRZ)
2 × 50G breakout	2 × 50G (2 lanes 25G NRZ)
4 × 25G breakout	4 × 25G (1 lanes 25G NRZ) 4 × 10G (1 lanes 10G NRZ)

Power Supply	
Model	PA550II-F/R
Input Connector	IEC 320-C14
Output Power	550W
Input Voltage	100-240 VAC
Frequency	50-60Hz
Efficiency	80 plus Platinum
Typical Input Current	7.2-3.5A
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 47 CFR Part 15 Subpart B ANSI C63.4 ICES-003 Issue 7 EN 55032 EN 55035 EN IEC 61000-3-2 EN 61000-3-3 EN 300386 BS EN 55032 BS EN 55035 BS EN IEC61000-3-2 BS EN 61000-3-3 BS EN 300386
Safety	UL 62368-1 CSA C22.2 NO. 62368-1 IEC 62368-1 EN 62368-1 BS EN 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

Ordering Information

Product ID	Product Description
M2-W6510-32C-FA	M2-W6510-32C switch, 32×100G QSFP28, with two PA550II-F power modules and five M1HFAN III-F fan modules, front-to-rear airflow.
M2-W6510-32C-RA	M2-W6510-32C switch, 32×100G QSFP28, with two PA550II-R power modules and five M1HFAN III-R fan modules, rear-to-front airflow.
M1HFAN III-F	Fan module, front-to-rear airflow.
M1HFAN III-R	Fan module, rear-to-front airflow.
PA550II-F	550W AC power supply module, front-to-rear airflow.
PA550II-R	550W AC 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.

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