Overview

The M2-W6910-64C switch is a new generation high density 100GbE switch designed for cloud-scale data center and campus networks, which provide a powerful cache capacity and advanced scheduling mechanism driven large scale line-rate non-blocking network.

M2-W6910-64C provides 64-port backward-compatible 100GbE QSFP28 interface to transparently migrate existing data center fabrics from 40Gbps speeds to 100Gbps. The platform provide hot-pluggable 1+1 redundancy power module and 2+1 redundancy cooling fan module to meet the high reliability requirement of datacenter and carrier networks.

Front View

Back View

Product Highlights

First-class Performance

- 64 × QSFP28 100GbE Ports
- Up to 12.8 Tbps (full duplex)
- Up to 4400 Mpps

Resilient Configuration

- Broadcom BCM56970 (Tomahawk 2)
- Intel Xeon D-1527 Processor (Formerly Broadwell DE)
- DDR4 8GB
- System storage≥240GB

Data Center Oriented Design

- Typical power of under 4.5W per 100GbE port
- 1+1 redundant & hot-swappable power
- 2+1 redundant & hot-swappable fans
- 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.

Product Highlights

Cloud Networking Ready

- Shared 42MB Buffer with burst absorption
- Up to 264K MAC and 128K Host entries
- IPv4: 76K min./128K max. L3 hosts/extended ;
- IPv6: 46K min./64K max. L3 hosts/extended ;

*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-W6910-64C
Ports	64×100GbE QSFP28
Console Port	1
MGMT Port	1 × RJ-45 1000BASE-T
USB Port	1
Switching Capacity	12.8 Tbps
Packets/Second	4400 Mpps
CPU	Intel Xeon D-1527
System Memory	DDR4 8GB
System Storage	240GB
BMC Option	AST2520
Switch ASIC	Broadcom BCM56970(Tomahawk 2)
Packet Buffer	42MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	2 (1+1 redundant, hot-swappable)
Fans	3 (2+1 redundant, hot-swappable)
OS	SONiC
Airflow Options	Standard airflow
Max/Typical Power	731W/410W
Consumption Dimensions (W × D × H)	17.4 ×23.94×3.39 in. 442 × 608 × 86.1 mm, 2RU
Weight (with all modules)	44.09 lbs (20 kg)

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Port Split

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

Power Supply

Model	PA800I-F
Input Connector	IEC 320-C14
Output Power	800W
Input Voltage	100-240 VAC
Frequency	50-60Hz
Efficiency	80 plus Platinum
Typical Input Current	10-5A

Environmental Characteristics

Operating Temperature	32 to 104º F (0 to 40ºC)
Storage Temperature	-40 to 158º F (-40 to 70ºC)
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
Safety	UL 62368-1 CSA C22.2 NO. 62368-1 IEC 62368-1
Certifications	FCC; IC; cTUVus; CB;
European Union Directives	-

Ordering Information

Product ID	Product Description
M2-W6910-64C-FA	M2-W6910-64C switch, 64*100G QSFP28, with two PA800I-F power modules and three P2EFAN III-F fan modules, front-to-rear airflow.
P2EFAN III-F	Fan module, front-to-rear airflow.
PA800I-F	800W AC power supply module, front-to-rear airflow.

MICAS NETWORKS

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.

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