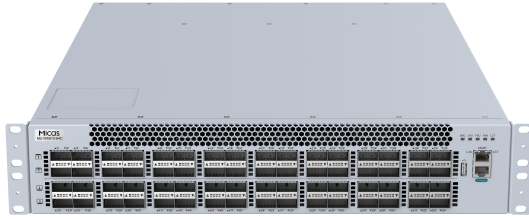# MICAS NETWORKS

Commercial Switch

M2-W6910-64C

Front View

Back View

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.

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)
• 8GB DRAM
• 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

Cloud Networking Ready
• Shared 42MB Buffer with burst absorption
• Up to 264K MAC and 128K Host entries
• Ipv4: 76K min./128K max. L3 hosrs/extended;
• Ipv6: 46K min./64K max. L3 hosrs/extended;
 ＊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.

MICAS NETWORKS

Specifications

Switch Model	M2-W6910-64C
Ports	64×QSFP28
Max 100GbE Ports	64
Max 50GbE Ports	-
Max 40GbE Ports	64
Max 25GbE Ports	256
Max 10GbE Ports	256
Max 1GbE Ports	-
MGMT Port	1
Console Port	1
USB Port	1
Switching Capacity	12.8Tbps
Packets/Second	4400Mpps
CPU	Intel Xeon D-1527
System Memory	8GB (Up to 32GB)
System Storage	240GB
BMC Option	Yes
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 Consumption	731W/410W
Dimensions (W x D x H)	17.32×22.83×3.39 in. 440×580×86 mm 2RU
Weight (with all modules)	38.5 pounds (17.5kg)

* 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 intergration services. Learn more about the offers at the Micas Networks dedicated page.

Power Supply

Model	PA800 I-F
Input Connector	IEC 320-C13
Output Power	800W
Input Voltage	100-240 VAC
Frequency	50-60 Hz
Effciency	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
Certifications	FCC; IC; cTUVus

Environmental

Operating Temperature	32 to 104° F (0 to 40℃)
Storage Temperature	-40 to 158° F (-40 to 70℃)
Operating Humidity	5% to 95% RH （Non-condensing）
Altitude (Operating)	0~1800m, (1800～5000m): When the altitude increases by 220m, the maximum temperature decreases by 1℃

Order Information

Switch

Product ID

M2-W6910-64C-FA

Product Description

M2-W6910-64C switch,
64*100G QSFP28, 2*AC power modules, 3*fan modules, front-to-rear airflow.
Standard airflow is supported

Fan and Power Supply

Model

P2EFAN III-F

PA800 I-F

Product Description

Fan module, front-to-rear airflow.

AC power supply module, front-to-rear 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-W6910-64C	3 Year	9×5×15CD-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