

Overview

The M2-S6510-48V8C is a high-performance modular access switch of Micas Networks. It can meet deployment requirements of multiple network architectures, including the traditional L3 architecture and Spine-Leaf architecture. It also supports deployment of the Overlay network and construction of traditional enterprise data center networks and super-large cloud data center networks.

This product offers adjustable L2/L3 resource allocation capabilities for different types of networks, rich virtualization features for deployment of Overlay/virtual networks, and monitoring and O&M functions (such as INT/Telemetry/ZTP) for automatic monitoring and O&M. Besides, switches of this series all support construction of lossless networks and can be applied to service scenarios that require lossless transmission, such as AI training or HPC.



Front View



Back View

Product Highlights

Non-blocking Hyperscale Data Center Networks

- Provides 48 × 25GbE ports and 8 × 100GbE ports
- Meets requirements of constructing hyperscale 25GbE data center networks.

Data Center Overlay Networking

- Supports VXLAN to meet the data center overlay networking requirements and enables the establishment of a logically layer-2 network on the layer-3 network

Automated O&M/Monitoring Network

- Supports In-band Network Telemetry to enable active pushing of switch status based on gRPC.
- Supports the ZTP protocol to meet automatic deployment requirements.

RDMA-based Lossless Ethernet

- Supports the RDMA feature and enables the establishment of lossless, low-latency data center Ethernet.

Parameter Specifications

System Specifications	
Switch Model	M2-S6510-48V8C
Ports	48 x 25GbE SFP28+ 8x100GbE QSFP28
Max 100GbE Ports	8
Max 50GbE Ports	-
Max 40GbE Ports	8
Max 25GbE Ports	80
Max 10GbE Ports	80
Max 1GbE Ports	80
Console Port	1
MGMT Port	1
USB Port	1
Switching Capacity	4.0 Tbps
Packets/Second	2003.4Mpps
CPU	1.2 GHz quad-core
System Memory	DDR4 4GB
System Storage	8 GB
Packet Buffer	32 MB
Temperature Alarm	Supports temperature alarm and overtemperature protection
Power Supplies	2 (1+1 redundant, hot-swappable)
Fans	4(3+1 redundant, hot-swappable)
OS	HULKOS
Airflow Options	Standard* and reversed** airflow
Max/Typical Power	300W/172W
Consumption Dimensions (W x D x H)	17.40 in. x 15.24 in. x 1.73 in. (442 mm×387 mm×44mm), 1RU
Weight (with all modules)	22 lbs (10kg)

Power Supply	
Model	PA550II-F/R
Input Connector	IEC 320-C14
Output Power	550W
Input Voltage	100-240 VAC
Frequency	50-60 Hz
Efficiency	94% 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-S6510-48V8C-FA	M2-S6510-48V8C switch, 48×10G/25G SFP28, 8×40G/100G QSFP28, 2×AC power modules, 4×fan modules, front-to-rear airflow.
M2-S6510-48V8C-RA	M2-S6510-48V8C switch, 48×10G/25G SFP28, 8×40G/100G QSFP28, 2×AC power modules, 4×fan modules, rear-to-front airflow.
MIEFAN IV-F	Fan module, front-to-rear airflow.
MIEFAN IV-R	Fan module, rear-to-front airflow.
PA550II-F	AC power supply module, front-to-rear airflow.
PA550II-R	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.

Address: 250W Tasman Drive. San Jose

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