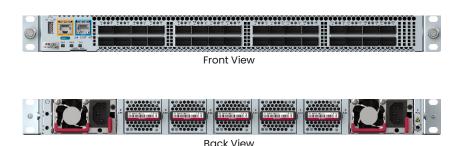# Overview

The M2-S6510-32C 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 32 x 100GbE ports.

### RDMA-based Lossless Ethernet

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

### 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.

# Parameter Specifications

| System Specifications | |
| --- | --- |
| Switch Model | M2-S6510-32C |
| Ports | 32 x 100GbE QSPF28 |
| Max 100GbE Ports | 32 |
| Max 50GbE Ports | 64 |
| Max 40GbE Ports | 32 |
| Max 25GbE Ports | 128 |
| Max 10GbE Ports | 128 |
| Max 1GbE Ports | 128 |
| MGMT Port | 1 |
| Console Port | 1 |
| USB Port | 1 |
| Switching Capacity | 6.4 Tbps |
| Packets/Second | 2003.4Mpps |
| CPU | 2.2 GHz Quad-Core |
| System Memory | 4 GB, DDR4 SODIMM (up to two SODIMM with 32 GB) |
| System Storage | 240GB |
| 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 | HULKOS |
| Airflow Options | Standard* and reversed** airflow |
| Max/Typical Power | 450W/270W |
| Consumption Dimensions (W x D x H) | 17.40in. × 22.04in. × 1.73 in. 442mm x 560mm x 44 mm, 1RU |
| Weight (with all modules) | 31.97 lbs (14.5KG) |

## Power Supply

| | |
|---|---|
| Model | PA550II-F/R |
| Input Connector | IEC 320-C14 |
| Output Power | 550 W |
| 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<br>ANSI C63.4<br>ICES-003 Issue 7<br><br>EN 55032<br>EN 55035<br>EN IEC 61000-3-2<br>EN 61000-3-3<br>EN 300386<br><br>BS EN 55032<br>BS EN 55035<br>BS EN IEC61000-3-2<br>BS EN 61000-3-3<br>BS EN 300386 |
| Safety | UL 62368-1<br>CSA C22.2 NO. 62368-1<br>IEC 62368-1<br>EN 62368-1<br>BS EN 62368-1 |
| Certifications | FCC; IC; cTUVus; CE; CB; ANATEL; UKCA; VOC |
| European Union Directives | Low Voltage Directive 2014/35/EU<br>EMC Directive 2014/30/EU<br>Directive 2012/19/EU<br>DIRECTIVE 2011/65/EU |

MICAS NETWORKS

# Ordering Information

| Product ID | Product Description |
| --- | --- |
| M2-S6510-32C-FA | M2-S6510-32C switch, 32*100G QSFP28, 2*AC power modules, 5*fan modules, front-to-rear airflow. |
| M2-S6510-32C-RA | M2-S6510-32C switch, 32*100G QSFP28, 2*AC power modules, 5*fan modules, rear-to-front airflow. |
| MIHFAN III-F | Fan module, front-to-rear airflow. |
| MIHFAN III-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.

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