

# MaiaEdge Port Extender

Expand port density seamlessly. Designed exclusively for the MaiaEdge Path Border Controller (PBC), this integrated 1U switch delivers turnkey, high-density port extension without adding a separate operational model.



## PRODUCT DESCRIPTION

### High-Density Port Extension for the PBC

For data centers, meet-me rooms, and aggregation sites, the MaiaEdge Port Extender expands physical port capacity for Path Border Controller deployments. The integrated 1U switch adds high-density tenant and service handoff ports while keeping provisioning, visibility, and service control anchored to the PBC.

# Features & Capabilities

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## Turnkey Plug-and-Play Integration

Deploys seamlessly alongside active PBC appliances to immediately extend physical port reach with minimal configuration overhead or operational friction.

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## High-Density Tenant Access

Adds 48 SFP28 10/25GbE ports for tenant, customer, and service-facing connectivity in dense interconnection environments.

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## Ultra-Low Latency Performance

Delivers non-blocking, line-rate performance with less than 500ns port-to-port latency in cut-through mode, ensuring critical traffic crosses the fabric extension with no measurable performance bottleneck.

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## Carrier-Grade Hardware Resiliency

Equipped with dual hot-swappable, 1+1 redundant power supplies and a 3+1 redundant fan tray to ensure continuous availability in demanding data center environments.

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## Flexible Cooling Profiles

Full support for both front-to-back and back-to-front airflow configurations, allowing effortless harmonization with standard hot/cold aisle layouts.

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## TECHNICAL SPECIFICATIONS

# Port Extender

Category	Specification
<b>PERFORMANCE &amp; CAPACITY</b>	
Switching Capacity	2.0 Tbps I/O bandwidth
Packet Buffer	32 MB transient capture buffer
Latency Overhead	<500 ns port-to-port latency, cut-through mode
<b>PHYSICAL INTERFACES</b>	
Tenant Ports	48 × SFP28 10GbE / 25GbE ports
Fabric Uplink Ports	8 × QSFP28 100GbE ports
Management Interfaces	1 × Rear CPU/BMC Shared Ethernet (RJ45) · 1 × Serial Console (RJ45) · 1 × USB Type-A
<b>COMPUTE &amp; SYSTEM MANAGEMENT</b>	
Processor Architecture	Intel x86 processor, up to 8 cores
System Memory	8–32 GB ECC DDR4
Local Boot / Storage	Configurable M.2 SSD
System Management	Integrated BMC plane, IPMI 2.0 compliant
<b>PHYSICAL &amp; ENVIRONMENTAL</b>	
Dimensions (H × W × D)	44 mm × 438 mm × 520 mm (1U EIA Rackmount)
Power Supplies	1+1 Redundant, Hot-Swappable PSUs (100–240VAC or 180–300VDC auto-ranging)
Max Power Consumption	<500W Maximum (Typical <350W at 25°C)
System Cooling	3+1 Redundant Fans; Front-to-Back and Back-to-Front configurations available
Operating Temperature	0°C to 45°C
Operating Humidity	5% to 90% non-condensing
MTBF Reliability	In excess of 150,000 hours

## Ready to expand your PBC deployment?

TALK TO AN EXPERT