

OPEN BRIDGE RACK

A VANITY-FREE, HIGH-EFFICIENCY DATA CENTER AND HPC RACK



OVERVIEW

As the backbone of the Open Compute Project (OCP)-based Tundra Extreme Scale platform, the Penguin Computing Open Bridge Rack is a practical rack designed as a data center and high-performance computing (HPC) solution. This unique rack is designed to maximize both efficiency and density for all of the user’s equipment, ensuring that components achieve a maximum lifespan.

FEATURES & BENEFITS

- Each rack is divided into 48mm (1.889”) tall sections or zones, called an OpenU, providing an improved thermal design
- The outer chassis measures 28” while the inner casing is 21” wide, allowing greater space efficiency and utilization than the current industry standard 19” rack
- With two power zones to support HPC power needs, it provides up to 31 KW total with N+3 redundancy
- Additionally, single N+1 redundancy is available, providing flexible power requirements including data center workloads and other demanding environments
- Flexible, redundant 12v busbar power supply that eliminates single points of failure
- 40 OpenU sections built for 21 inch OCP servers, providing a dense solution while using space efficiently
- Toolless rails allow for quick and easy servicing of hardware and components from the cold aisle

FEATURE	TECHNICAL SPECIFICATIONS
Height	82 inches
Width	28 inches
Depth	48 inches
Maximum Rate Load	1558 lbs
Maximum Total Weight	2218 lbs
Rack Units	43
Open Units (OU)	40
Rack Width	21 inches
Power Supply	12v Busbar

About the Tundra Extreme Scale HPC Platform

The Open Bridge Rack is a critical component of the Tundra Extreme Scale HPC platform, which helps bring all the efficiency of OCP to HPC. Ensuring your performance levels are on par with the rest of your industry can be expensive, time consuming, and result in too much lost productivity. But ignoring new innovations means not making the most of your technology. With 108 nodes per Open Bridge Rack, the Tundra ES system is the densest OCP solution available, while providing industry-leading options for networking and storage.

COMPUTE TECHNOLOGY OPTIONS	NETWORKING TECHNOLOGY OPTIONS
<p>The central processing unit (CPU) is the powerhouse around which other server technology revolves, depending upon the strengths and weaknesses of your chosen CPU. To ensure your system meets your specific needs, the Tundra platform supports a variety of CPU options, including:</p> <ul style="list-style-type: none">• Intel® Xeon® Scalable• Intel® Xeon Phi™• AMD® Epyc	<p>Modern HPC and data center workloads must scale to meet ever-growing infrastructure demands and the key to efficient and effective scalability is appropriate networking. To ensure your system operates at scale while minimizing bottlenecks and maximizing results, the Tundra platform supports multiple networking options, including:</p> <ul style="list-style-type: none">• Penguin Computing® Arctica®• Mellanox® Infiniband• Intel® Omni-Path

Learn More

Configure your ideal server at www.penguincomputing.com.

For pricing on your specific configuration, contact a representative by email at sales@penguincomputing.com or call 1-888-PENGUIN (736-4846).

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About Penguin Computing

Penguin Computing, Inc. is a 20-year-old, U.S.-based global provider of high-performance computing (HPC), artificial intelligence (AI), and data center solutions with more than 2,500 customers in 40 countries, across eight major vertical markets. Penguin Computing offers a comprehensive portfolio of hardware, software, and services, including solutions based on the Open Compute Project (OCP), as well as financing and top-rated customer support. Penguin Computing products include Linux-based servers, software, integrated, turn-key clusters, enterprise-grade storage, and bare metal HPC on cloud via Penguin Computing® On-Demand™ (POD).

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