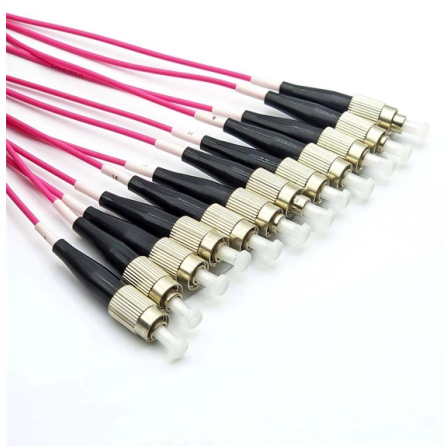


Bandwidth Comparison of Best-Selling Outdoor Server Rack Models



AI Overview

Outdoor server racks' effective bandwidth depends on the servers and networking equipment they house, with top models supporting high-throughput Intel Xeon-based servers capable of up to 1TB/sec memory bandwidth. Key Considerations for Outdoor Rack Bandwidth:

- Server Compatibility:** Outdoor racks must accommodate high-performance servers like the Lenovo ThinkSystem SR250, Dell PowerEdge R-Series, HPE ProLiant DL, IBM Power Systems, and Intel Server D50DNP/D50TNP families, which offer advanced I/O throughput and memory bandwidth. For example, the Intel Server D50DNP family provides up to 1TB/sec memory bandwidth with on-chip High Bandwidth Memory (HBM2e), ideal for memory-intensive applications and AI workloads.
- Rack Size and Depth:** Standard outdoor racks typically support 19-inch equipment with depths ranging from 600 mm to 800 mm. Deeper racks allow full-depth servers and UPS units, which can sustain higher network throughput without thermal throttling.
- Cooling and Thermal Management:** Bandwidth performance is closely tied to thermal efficiency. Outdoor racks with active cooling (thermostat-controlled fans) can maintain server performance in ambient temperatures up to 45°C, preventing throttling that would reduce effective network throughput. Passive cooling is sufficient for lower-power deployments but may limit sustained high-bandwidth operations.
- Ingress Protection (IP Rating):** IP55 or higher is recommended for outdoor deployments. IP66 offers additional protection against heavy rain or salt spray, ensuring that high-speed networking equipment remains operational under harsh conditions. Reliable environmental protection prevents downtime that could impact bandwidth availability.
- Networking Infrastructure:** Outdoor racks must support high-speed switches and routers. Modular racks allow flexible placement of 1U-4U s...

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Server Racks: Everything You Need to Know | Eaton

Everything you need to know about server racks and how to buy one for your business. Our guide covers different types of server racks, their features, and

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