

ThinkSystem NE10032 RackSwitch

Cloud-optimized 100Gb Ethernet spine switch



Better Together

The Lenovo ThinkSystem NE10032 RackSwitch is part of the Lenovo Top of Rack (ToR) RackSwitch enterprise switch family, tested and validated with Lenovo reference architectures to provide the best integration possible for Lenovo servers, storage, and networking in the data center. Lenovo XClarity provides single-pane-of-glass management for the Lenovo data center. Lenovo RackSwitches interoperate seamlessly with other vendors' servers, networking, and management.

Data Center Optimized Networking

The NE10032 is optimized for enterprise data centers with features, such as:

- Software Defined Data Center interfaces ensure smooth interoperability with popular enterprise management applications.
- Nutanix Prism with Lenovo Network Orchestrator automates vlan changes to improve uptime and network security.
- VMware vRealize Log Insight collects logs and events to determine root cause and produce reports across multiple devices and vendors.
- VMware vRealize Network Orchestrator helps deploy workflows to automate complex IT processes.

- As a Microsoft Azure Stack solution partner, BGP, DCP, and switch-independent teaming deliver seamless interoperability.
- Open Architecture: NE10032 supports automation and control while integrating with industry-standard applications and APIs, such as REST, OpenStack, OpenContrail, and Ansible.
- OpenStack controls diverse pools of processing, storage, and networking resources throughout the data center.
- Ansible automation frees up operations teams for more strategic work.
- Resiliency: NE10032 offers outstanding fault tolerance with one of the quickest high-availability failovers in the industry so running applications are less likely to require a restart.

Low TCO

NE10032 is an extremely cost-effective switch for high-end 100GbE hybrid-cloud data center applications. It offers the following reduced costs.

- All software, management plugins, and XClarity Administrator are included in the purchase price.
- Switches come with a 3-year warranty and include free software updates and upgrades.
- Lower power consumption reduces operating expenses.

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Specifications

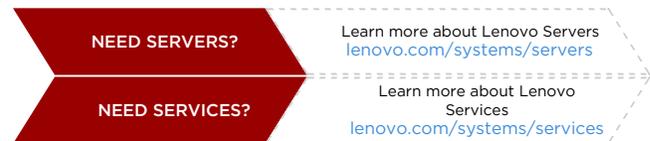
Performance	Line rate performance, up to 6.4Tbps switching throughput, as low as 490 ns port-to-port switching latency, up to 2,702 Million packets per second (Mpps), up to 9,216-byte jumbo frames, 16MB buffer size
Interface Configurations	32x 100Gb Ethernet ports supporting various combinations: <ul style="list-style-type: none"> Up to 32x QSFP28 100GbE QSFP28 transceivers Up to 32x QSFP 40GbE QSFP transceivers Up to 32x QSFP28 100Gb DAC cable or AOC cable. (Various lengths: 1m, 3m, 5m, etc.) Up to 128x SFP28 25GbE ports using special (QSFP28-to-4xQSFP28) break-out DAC cable or optics with break-out fibers. (Various lengths: 1m, 3m, 5m, etc.) Up to 64x QSFP28 50GbE ports using special (QSFP28-to-2xQSFP28) break-out DAC cable or optics with break-out fibers. (Various lengths: 1m, 3m, 5m, etc.) Up to 128x SFP+ 10GbE ports using special (QSFP-to-4xSFP+) break-out DAC cable or optics with break-out fibers. (Various lengths: 1m, 3m, 5m, etc.)
Virtualization	VLAG, SDN Ready
Cooling	Front-to-rear or rear-to-front cooling, six variable-speed hot-swap fan assemblies that provide N+1 cooling redundancy
Power	Dual load-sharing hot-swap internal power modules, 212W typical / 436W maximum consumption
Management Software Supported	Lenovo XClarity, VMware, OpenStack, Ganglia, Nutanix
Automation	Ansible, Chef, Puppet
API	Python, REST, Telemetry
Limited Warranty	3-year customer replaceable unit and software warranty

Why Lenovo

Lenovo is a global Fortune 500 company and a leader in providing innovative consumer, commercial, and enterprise technology. Lenovo enterprise systems deliver industry-leading performance, reliability, and security in virtualized and cloud environments for analytics, database, virtual desktop, infrastructure, and web workloads. Lenovo also offers simplified and extensible systems management tools so you can manage your infrastructure on your own terms. Consistently ranked #1 in reliability and customer satisfaction, the Lenovo enterprise server, storage, and networking portfolio provides the hardware for businesses that never stand still.

For More Information

To learn more about the Lenovo ThinkSystem NE10032 RackSwitch, contact your Lenovo representative or Business Partner or visit: lenovo.com/networking. For detailed specifications, consult the [NE10032 Product Guide](#).



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