

Lenovo ThinkSystem NE25800 RackSwitch

ONIE 25GbE / 100GbE leaf switch



Better Together

The Lenovo ThinkSystem NE25800 RackSwitch is part of the Lenovo Top of Rack (ToR) Ethernet switch family. It features programmable ASICs that can deliver in-band telemetry and support the latest cloud and SDN network requirements.

Sales and Service is coordinated with Lenovo and the Network OS provider working together to deliver upfront planning and long-term product support to help keep your data center running smoothly.

Disaggregated Data Center Networking

Use your preferred network operating system and Lenovo switches with features that include:

- High-performance leaf aggregation for large-volume applications including big data, hyperconverged, hyperscale, service provider and HPC solutions.
- ONIE (Open Network Install Environment) specific models from Lenovo, delivering support for third-party operating systems that complement centralized data center cloud infrastructures and management.
- An option to purchase a leading third-party ONIE-enabled operating system, Cumulus Linux / NetQ.

Low TCO

The NE25800 is a low total cost-of-ownership ONIE switch for high-end 25GbE data center applications. It offers:

- A 3-year hardware warranty with one business day turnaround
- Low power consumption and high reliability to minimize operating expenses
- Pricing that aligns with the branded white (brite) box data center switch marketplace

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[†], the Lenovo enterprise server, storage, and networking portfolio provides the hardware for businesses that never stand still.

Lenovo

Specifications

Performance	Line-rate performance, up to 2.0 Tbps aggregated throughput up to 2,678 Million packets per second (Mpps)(64-byte packets), up to 9,416-byte jumbo frames, buffer size: 32MB
25G interface configurations	48x 25GbE ports supporting various combinations of: <ul style="list-style-type: none"> ● Up to 48x 25GbE SFP28 transceivers ● Up to 48x 10GbE SFP+ transceivers ● Up to 48x 25GbE SFP28 DAC and AOC ● Up to 48x 10GbE SFP+ DAC and AOC
100G interface configurations	8x 100GbE ports supporting various combination of: <ul style="list-style-type: none"> ● Up to 8x 100GbE QSFP28 transceivers ● Up to 8x 40GbE QSFP+ transceivers ● Up to 8x 100GbE QSFP28 DAC or AOC ● Up to 8x 40GbE QSPF+ DAC or AOC ● Up to 32x 25GbE SFP28 ports using special (QSFP28 to 4x SFP28) break-out DAC or optics cable ● Up to 32x 10GbE SFP+ ports using special (QSFP+ to 4x SFP+) break-out DAC or optics cable
Management interfaces	<ul style="list-style-type: none"> ● 1x GbE mini HDMI (Type D) Management port ● 1x Mini USB (Type AB) serial console port ● 1x USB 2.0 for mass storage access
Front and rear panel status LED	Management port, service required, power supply, fan, stacking (Network OS dependent), link/speed
Cooling	Rear-to-front cooling, five variable-speed hot-swap fan modules that provide 4+1 redundancy
Power	Dual hot-swap internal power modules that provide 1+1 redundancy with 437W maximum consumption
Network OS	ONIE (Open Network Install Environment)
Limited warranty	Three-year customer-replaceable parts and limited onsite services with 9x5 next business day terms. Optional warranty service upgrades are available.

For More Information

To learn more about the ThinkSystem NE25800 RackSwitch, contact your Lenovo representative or Business Partner or visit: lenovo.com/networking. For detailed specifications, consult the NE25800 product guide at lenovopress.com/lp1163.

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† ITIC Global Reliability Study, lenovopress.com/lp1117.

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