



Lenovo ThinkSystem NE2572O RackSwitch

Product Guide (withdrawn product)

The Lenovo ThinkSystem NE2572O RackSwitch is designed for big data, cloud, and enterprise workloads in the data center, and it provides 10 Gb/25 Gb Ethernet connectivity with 40 Gb/100 Gb Ethernet upstream links. The switch delivers line-rate, low-latency, and high-bandwidth switching, while providing high availability for business sensitive traffic with the hot-swap redundant power supplies and fans.

The NE2572O RackSwitch has 48x SFP28/SFP+ ports that support 10 GbE SFP+ and 25 GbE SFP28 optical transceivers, active optical cables (AOCs), and direct attach copper (DAC) cables. The switch also offers 6x QSFP28/QSFP+ ports that support 40 GbE QSFP+ and 100 GbE QSFP28 optical transceivers, active optical cables (AOCs), and direct attach copper (DAC) cables. The QSFP28/QSFP+ ports can also be split out into two 50 GbE (for 100 GbE QSFP28), or four 10 GbE (for 40 GbE QSFP+) or 25 GbE (for 100 GbE QSFP28) connections by using breakout cables.

The NE2572O RackSwitch is shown in the following figure.



Figure 1. Lenovo ThinkSystem NE2572O RackSwitch

Did you know?

With exceptional port density and flexibility with break-out cables, the NE2572O RackSwitch can support up to 72x 10 GbE / 25 GbE Ethernet connections or a mix of 10 GbE / 25 GbE server and storage connections with 40 GbE or 100 GbE upstream network connections in a 1U rack form factor.

The NE2572O RackSwitch includes the Open Network Install Environment (ONIE) which is an open, standards-based boot code that provides a deployment environment for loading certified ONIE networking operating systems onto networking devices.

Key features

The NE2572O RackSwitch provides a simple and open network infrastructure designed to scale for your business needs. Its intelligent, cloud-scale performance delivers a software-defined Ethernet solution that is simple to manage and easy to deploy using common management tools. The switch is based on industry standards for better data center interoperability, and it enables support of network virtualization, automation, and orchestration applications for tight integration into the data center ecosystem.

The NE2572O RackSwitch is considered particularly suited for the following environments:

- Open networking architectures that are based on the certified ONIE networking operating systems, such as Cumulus Linux.
- Mixed 10 GbE and 25 GbE server and storage connectivity with 40 GbE and 100 GbE upstream aggregation
- Data center interconnect fabric for accelerated, low-latency communications across clustered applications
- · Cloud and virtualization solutions
- Web-scale and hyperconverged solutions

The NE2572O RackSwitch offers the following features and benefits:

- High performance
 - The 10 Gb/25 Gb Ethernet NE2572O RackSwitch with 40 Gb/100 Gb Ethernet uplinks provides a combination of low latency and non-blocking line-rate switching.
- · Lower power and better cooling
 - The rear-to-front cooling design of the NE2572O RackSwitch reduces data center air conditioning costs by having airflow match the servers in the rack cabinet. In addition, variable speed fans help reduce power consumption.
- Fault tolerance
 - The NE2572O RackSwitch offers redundant hot-swap hardware components to provide availability for network communications across business-critical applications.
- Open Network Install Environment (ONIE)
 - The NE2572O RackSwitch provides an open install environment for networking devices without operating systems. ONIE enables a network switch ecosystem for end users to choose among different Network Operating Systems by discovering NOS installer images and loading them onto the switch.
- · Seamless interoperability
 - Based on industry standards, the NE2572O RackSwitch interoperates seamlessly with other vendors' switches.

Components and connectors

The following figure shows the front (port-side) panel of the NE2572O RackSwitch.

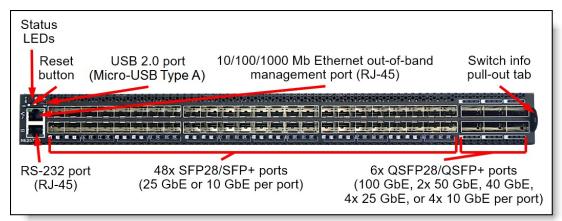


Figure 2. Front panel of the NE2572O RackSwitch

The front panel of the NE2572O RackSwitch includes the following components:

- 48x SFP28/SFP+ ports to attach SFP28/SFP+ transceivers, DAC cables, and AOCs for 25 Gb or 10 Gb Ethernet connections.
- 6x QSFP28/QSFP+ ports to attach QSFP28/QSFP+ transceivers, DAC cables, and AOCs for 100 Gb or 40 Gb Ethernet connections or breakout cables for 2x 50 Gb or 4x 25 Gb Ethernet connections out of a 100 GbE port, or 4x 10 GbE connections out of a 40 GbE port.
- One RJ-45 10/100/1000 Mb Ethernet port for out-of-band management.
- One RJ-45 RS-232 console port that provides another means to configure the switch.
- One Micro-USB Type A port for mass storage devices.
- LEDs that display the status of the switch and the network.
- · Reset button.
- Switch information pull-out tab.

The following figure shows the rear (non-port-side) panel of the NE2572O RackSwitch.

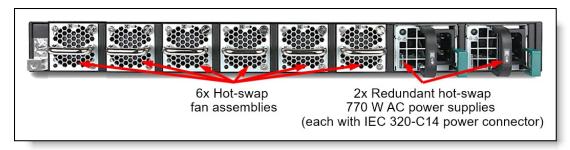


Figure 3. Rear panel of the NE2572O RackSwitch

The rear panel of the NE2572O RackSwitch includes the following components:

- Two redundant hot-swap 770 W AC power supplies (each with the IEC 320-C14 power connector).
- Six N+1 redundant hot-swap fan assemblies.

System specifications

The following table lists the NE2572O RackSwitch system hardware specifications.

Table 1. NE2572O RackSwitch system hardware specifications

| Attribute | Specification |
|-------------|--|
| Form factor | 1U rack mount |
| Ports | 48x SFP28/SFP+ ports 6x QSFP28/QSFP+ ports |
| Media types | 10 Gb Ethernet SFP+: • 10 GbE short-range (SR) SFP+ transceivers • 10 GbE long-range (LR) SFP+ transceivers • 10 GbE extended-range (ER) SFP+ transceivers • 10 GbE RJ-45 SFP+ transceivers • 10 GbE SFP+ active optical cables • 10 GbE SFP+ DAC cables |
| | 25 Gb Ethernet SFP28: • 25 GbE SR SFP28 transceivers • 25 GbE SFP28 active optical cables • 25 GbE SFP28 DAC cables |
| | 40 Gb Ethernet QSFP+: • 40 GbE SR QSFP+ bi-directional (BiDi) transceivers • 40 GbE short-range (SR4/iSR4/eSR4) QSFP+ transceivers • 40 GbE long-range (LR4) QSFP+ transceivers • 40 GbE QSFP+ to QSFP+ active optical cables • 40 GbE QSFP+ to 4x 10 GbE SFP+ active optical breakout cables • 40 GbE QSFP+ to QSFP+ DAC cables • 40 GbE QSFP+ to 4x 10 GbE SFP+ DAC breakout cables |
| | 100 Gb Ethernet QSFP28: 100 GbE short-range (SR4) QSFP28 transceivers 100 GbE long-range (LR4) QSFP28 transceivers 100 GbE QSFP28 to QSFP28 active optical cables 100 GbE QSFP28 to 4x 25 GbE SFP28 active optical breakout cables 100 GbE QSFP28 to QSFP28 DAC cables 100 GbE QSFP28 to 4x 25 GbE SFP28 DAC breakout cables 100 GbE QSFP28 to 2x 50 GbE QSFP28 DAC breakout cables (not supplied by Lenovo) |
| Port speeds | 10 GbE SFP+ transceivers, DAC cables, and AOCs: 10 Gbps 25 GbE SFP28 transceivers, DAC cables, and AOCs: 25 Gbps 40 GbE QSFP+ SR BiDi/SR4/LR4 transceivers: 40 GbE 40 GbE QSFP+ iSR4/eSR4 transceivers, DAC cables, and AOCs: 40 GbE or 4x 10 GbE 100 GbE QSFP28 DAC cables: 100 Gbps, 2x 50 [2x 25] Gbps, or 4x 25 Gbps 100 GbE QSFP28 SR4 transceivers and AOCs: 100 Gbps or 4x 25 Gbps 100 GbE QSFP28 LR4 transceivers: 100 GbE |
| Performance | Non-blocking architecture with wire-speed forwarding of traffic: • 100% line-rate performance • Up to 3.6 Tbps aggregated throughput • Up to 2679 Million packets per second (Mpps) (64-byte packets) |
| Cooling | Six N+1 redundant hot-swap fans. Rear (non-port side) to front (port side) airflow. |

| Attribute | Specification |
|-------------------------------|---|
| Power supply | Two load-sharing, redundant hot-swap 770 W AC (100 - 240 V) Platinum power supplies (each power supply has an IEC 320-C14 connector). |
| Hot-swap parts | SFP28/SFP+/QSFP28/QSFP+ transceivers, DAC cables, and AOCs; power supplies; fans. |
| Management ports | 1x 10/100/1000 Mb Ethernet port (RJ-45); 1x RS-232 port (RJ-45); 1x USB 2.0 port (Micro-USB Type A; for additional firmware, log, and configuration files storage). |
| Security features | Trusted Platform Module (TPM) 1.2. |
| Hardware warranty | Three-year Customer Replaceable Unit (CRU) limited warranty with 9x5 coverage and Next Business Day (NBD) parts delivered. |
| Service and support | Optional service upgrades are available through Lenovo Services: 9x5 coverage with NBD onsite response, 24x7 coverage with 2-hour or 4-hour onsite response, 6-hour or 24-hour committed service repair (select areas), up to 5 years of warranty coverage, 1-year or 2-year post-warranty extensions, Premier support, and Basic Hardware Installation Services. |
| Mean Time Between Failures | 242 685 hours MTBF. |
| Dimensions | Height: 44 mm (1.7 in.); width: 441 mm (17.3 in.); depth: 487 mm (19.2 in.) |
| Weight | 11.4 kg (25.1 lb). |

Models

Product availability: The ThinkSystem NE2572O RackSwitch is withdrawn and no longer available for ordering.

The following table lists the NE2572O RackSwitch models.

Table 2. NE2572O RackSwitch models

| Description | Part number | Machine Type/Model | Feature code |
|---|-------------|-----------------------|--------------|
| Lenovo ThinkSystem NE2572O RackSwitch (Rear to Front, ONIE) | 7Z210O21WW | 7Z21CTO2WW | B4PN |

The part numbers for the NE2572O RackSwitch models include the following items:

- One NE2572O RackSwitch with two power supplies and six fan assemblies
- Generic Rack Mount Kit (2-post)
- Cable Kit that includes the following items:
 - o DB-9 (plug) to RJ-45 (plug) serial console cable
 - Micro-USB Type A (plug) to USB Type A (jack) data cable
- Electronic Publications Flyer

Configuration notes:

- Power cables are not included and must be ordered together with the switch (see Power supplies and cables for details).
- Transceivers and cables are not included and should be ordered for the switch (see Transceivers and cables for details).

Transceivers and cables

With the flexibility of the NE2572O RackSwitch, customers can choose the following connectivity technologies:

For 10 GbE links, customers can use SFP28 ports with 10 GbE SFP+ direct-attached copper (DAC) cables for distances up to 7 meters or 10 GbE SFP+ active optical cables (AOCs) for distances up to 20 meters. The AOCs and DAC cables have SFP+ connectors on each end, and they do not need separate transceivers. For distances up to 30 meters, the 10GBASE-T SFP+ transceiver can be used with Category 6a or 7 RJ-45 UTP cables.

For longer distances, the 10GBASE-SR SFP+ transceivers can be used for up to 300 meters on OM3 or up to 400 meters on OM4 multimode fiber optic (MMF) cables. The 10GBASE-LR SFP+ transceivers can support distances up to 10 kilometers on single mode fiber optic (SMF) cables. For extended distances, the 10GBASE-ER SFP+ transceivers can support up to 40 kilometers on SMF cables.

To increase the number of available 10 GbE ports, customers can split out four 10 GbE ports for each QSFP28 port by using QSFP+ to 4x SFP+ DAC or active optical breakout cables for distances up to 5 meters. The 40GBASE-iSR4 QSFP+ transceivers can be used for distances up to 100 meters on OM3 or up to 150 meters on OM4 MMF MPO-to-LC breakout cables. For longer distances, the 40GBASE-eSR4 transceivers can be used for up to 300 meters on OM3 or up to 400 meters on OM4 MMF MPO-to-LC breakout cables.

 For 25 GbE links, customers can use SFP28 ports with 25 GbE SFP28 DAC cables for distances up to 5 meters or 25 GbE SFP28 active optical cables (AOCs) for distances up to 20 meters. The AOCs and DAC cables have SFP28 connectors on each end, and they do not need separate transceivers.

To increase the number of available 25 GbE ports, customers can split out four 25 GbE ports for each QSFP28 port by using QSFP28 to 4x SFP28 DAC breakout cables for distances up to 5 meters or active optical breakout cables for distances up to 20 meters. For longer distances, the 100GBASE-SR4 QSFP28 transceivers can be used for up to 70 meters on OM3 or up to 100 meters on OM4 MMF MPO-to-LC breakout cables.

 For 40 GbE links, customers can use QSFP28 ports with QSFP+ to QSFP+ DAC cables for distances up to 7 meters or QSFP+ to QSFP+ active optical cables for distances up to 20 meters.
 These DAC cables and AOCs have QSFP+ connectors on each end, and they do not need separate transceivers.

For longer distances, customers can use the 40GBASE QSFP+ bi-directional transceivers or 40GBASE-SR4/iSR4 QSFP+ transceivers for distances up to 100 meters on OM3 or up to 150 meters on OM4 MMF cables. The 40GBASE-eSR4 QSFP+ transceiver can be used for distances up to 300 meters on OM3 or up to 400 meters on OM4 MMF cables. The 40GBASE-LR4 QSFP+ transceiver can be used for distances up to 10 kilometers on SMF cables.

- For 50 GbE links, customers can split out two 50 GbE ports for each QSFP28 port by using the QSFP28-2xQSFP28 DAC breakout cables (not supplied by Lenovo).
- For 100 GbE links, customers can use QSFP28 ports with QSFP28 DAC cables for distances up to 5 meters or QSFP28 active optical cables for distances up to 20 meters. These DAC cables and AOCs have QSFP28 connectors on each end, and they do not need separate transceivers.

For longer distances, the 100GBASE-SR4 QSFP28 transceivers support distances up to 70 meters on OM3 or up to 100 meters on OM4 MMF cables. The 100GBASE-LR4 QSFP28 transceiver can be used for distances up to 10 kilometers on SMF LC cables.

The following table lists the supported cables and transceivers.

Table 3. Transceivers and cables

| Description | Part number | Maximum quantity supported |
|----------------------------|-------------|----------------------------|
| SFP+ transceivers - 10 GbE | | |

| Description | Part number | Feature code | Maximum quantity supported |
|---|----------------|--------------|----------------------------|
| Lenovo Dual Rate 1/10Gb SX/SR SFP+ Transceiver (no 1 Gb support) | 00MY034 | ATTJ | 48 |
| Lenovo 10Gb SFP+ SR Transceiver (10GBASE-SR) | 46C3447 | 5053 | 48 |
| Lenovo 10Gb SFP+ LR Transceiver (10GBASE-LR) | 90Y9412 | A1PM | 48 |
| Lenovo 10GBASE-LR SFP+ Transceiver | 00FE331 | B0RJ | 48 |
| Lenovo 10Gb SFP+ ER Transceiver (10GBASE-ER) | 90Y9415 | A1PP | 48 |
| Lenovo 10GBASE-T SFP+ Transceiver | 7G17A03130 | AVV1 | 48 |
| OM3 optical cables for 10 GbE SR SFP+, 25 GbE SR SFP28, and 40 GbE SR | R QSFP+ BiDi t | ransceive | 'S |
| Lenovo 0.5m LC-LC OM3 MMF Cable | 00MN499 | ASR5 | 54 |
| Lenovo 1m LC-LC OM3 MMF Cable | 00MN502 | ASR6 | 54 |
| Lenovo 3m LC-LC OM3 MMF Cable | 00MN505 | ASR7 | 54 |
| Lenovo 5m LC-LC OM3 MMF Cable | 00MN508 | ASR8 | 54 |
| Lenovo 10m LC-LC OM3 MMF Cable | 00MN511 | ASR9 | 54 |
| Lenovo 15m LC-LC OM3 MMF Cable | 00MN514 | ASRA | 54 |
| Lenovo 25m LC-LC OM3 MMF Cable | 00MN517 | ASRB | 54 |
| Lenovo 30m LC-LC OM3 MMF Cable | 00MN520 | ASRC | 54 |
| OM4 optical cables for 10 GbE SR SFP+, 25 GbE SR SFP28, and 40 GbE SR | R QSFP+ BiDi t | ransceive | 'S |
| Lenovo 0.5m LC-LC OM4 MMF Cable | 4Z57A10845 | B2P9 | 54 |
| Lenovo 1m LC-LC OM4 MMF Cable | 4Z57A10846 | B2PA | 54 |
| Lenovo 3m LC-LC OM4 MMF Cable | 4Z57A10847 | B2PB | 54 |
| Lenovo 5m LC-LC OM4 MMF Cable | 4Z57A10848 | B2PC | 54 |
| Lenovo 10m LC-LC OM4 MMF Cable | 4Z57A10849 | B2PD | 54 |
| Lenovo 15m LC-LC OM4 MMF Cable | 4Z57A10850 | B2PE | 54 |
| Lenovo 25m LC-LC OM4 MMF Cable | 4Z57A10851 | B2PF | 54 |
| Lenovo 30m LC-LC OM4 MMF Cable | 4Z57A10852 | B2PG | 54 |
| SFP+ active optical cables - 10 GbE | | | |
| Lenovo 1m SFP+ to SFP+ Active Optical Cable | 00YL634 | ATYX | 48 |
| Lenovo 3m SFP+ to SFP+ Active Optical Cable | 00YL637 | ATYY | 48 |
| Lenovo 5m SFP+ to SFP+ Active Optical Cable | 00YL640 | ATYZ | 48 |
| Lenovo 7m SFP+ to SFP+ Active Optical Cable | 00YL643 | ATZ0 | 48 |
| Lenovo 15m SFP+ to SFP+ Active Optical Cable | 00YL646 | ATZ1 | 48 |
| Lenovo 20m SFP+ to SFP+ Active Optical Cable | 00YL649 | ATZ2 | 48 |
| SFP+ passive direct-attach copper cables - 10 GbE | | | |
| Lenovo 0.5m Passive SFP+ DAC Cable | 00D6288 | A3RG | 48 |
| Lenovo 1m Passive SFP+ DAC Cable | 90Y9427 | A1PH | 48 |
| Lenovo 1.5m Passive SFP+ DAC Cable | 00AY764 | A51N | 48 |
| Lenovo 2m Passive SFP+ DAC Cable | 00AY765 | A51P | 48 |
| Lenovo 3m Passive SFP+ DAC Cable | 90Y9430 | A1PJ | 48 |
| Lenovo 5m Passive SFP+ DAC Cable | 90Y9433 | A1PK | 48 |
| Lenovo 7m Passive SFP+ DAC Cable | 00D6151 | A3RH | 48 |
| SFP+ active direct-attach copper cables - 10 GbE | | | |

| Description | Part number | Feature code | Maximum quantity supported |
|---|-------------|--------------|----------------------------|
| Lenovo 1m Active DAC SFP+ Cable | 00VX111 | AT2R | 48 |
| Lenovo 3m Active DAC SFP+ Cable | 00VX114 | AT2S | 48 |
| Lenovo 5m Active DAC SFP+ Cable | 00VX117 | AT2T | 48 |
| SFP28 transceivers - 25 GbE | | | |
| Lenovo 25GBASE-SR SFP28 Transceiver | 7G17A03537 | AV1B | 48 |
| SFP28 active optical cables - 25 GbE | | | |
| Lenovo 3m 25G SFP28 Active Optical Cable | 7Z57A03541 | AV1F | 48 |
| Lenovo 5m 25G SFP28 Active Optical Cable | 7Z57A03542 | AV1G | 48 |
| Lenovo 10m 25G SFP28 Active Optical Cable | 7Z57A03543 | AV1H | 48 |
| Lenovo 15m 25G SFP28 Active Optical Cable | 7Z57A03544 | AV1J | 48 |
| Lenovo 20m 25G SFP28 Active Optical Cable | 7Z57A03545 | AV1K | 48 |
| SFP28 passive direct-attach copper cables - 25 GbE | | | |
| Lenovo 1m Passive 25G SFP28 DAC Cable | 7Z57A03557 | AV1W | 48 |
| Lenovo 3m Passive 25G SFP28 DAC Cable | 7Z57A03558 | AV1X | 48 |
| Lenovo 5m Passive 25G SFP28 DAC Cable | 7Z57A03559 | AV1Y | 48 |
| QSFP+ transceivers - 40 GbE | | | |
| Lenovo 40GBASE QSFP+ Bi-Directional Transceiver | 00YL631 | ATYW | 6 |
| Lenovo 40GBASE-SR4 QSFP+ Transceiver | 49Y7884 | A1DR | 6 |
| Lenovo 40GBASE-iSR4 QSFP+ Transceiver | 00D9865 | ASTM | 6 |
| Lenovo 40GBASE-eSR4 QSFP+ Transceiver | 00FE325 | A5U9 | 6 |
| Lenovo 40GBASE-LR4 QSFP+ Transceiver | 00D6222 | A3NY | 6 |
| Optical cables for 40 GbE QSFP+ SR4/iSR4/eSR4 transceivers | | | |
| Lenovo 10m QSFP+ MPO-MPO OM3 MMF Cable | 00VX003 | AT2U | 6 |
| Lenovo 30m QSFP+ MPO-MPO OM3 MMF Cable | 00VX005 | AT2V | 6 |
| Optical breakout cables for 40 GbE QSFP+ iSR4/eSR4 transceivers | | | |
| Lenovo 1m MPO-4xLC OM3 MMF Breakout Cable | 00FM412 | A5UA | 6 |
| Lenovo 3m MPO-4xLC OM3 MMF Breakout Cable | 00FM413 | A5UB | 6 |
| Lenovo 5m MPO-4xLC OM3 MMF Breakout Cable | 00FM414 | A5UC | 6 |
| QSFP+ active optical cables - 40 GbE | | | |
| Lenovo 3m QSFP+ to QSFP+ Active Optical Cable | 00YL652 | ATZ3 | 6 |
| Lenovo 5m QSFP+ to QSFP+ Active Optical Cable | 00YL655 | ATZ4 | 6 |
| Lenovo 7m QSFP+ to QSFP+ Active Optical Cable | 00YL658 | ATZ5 | 6 |
| Lenovo 15m QSFP+ to QSFP+ Active Optical Cable | 00YL661 | ATZ6 | 6 |
| Lenovo 20m QSFP+ to QSFP+ Active Optical Cable | 00YL664 | ATZ7 | 6 |
| QSFP+ active optical breakout cables - 40 GbE to 4x10 GbE | | | |
| Lenovo 1m QSFP+ to 4xSFP+ Active Optical Cable | 00YL667 | ATZ8 | 6 |
| Lenovo 3m QSFP+ to 4xSFP+ Active Optical Cable | 00YL670 | ATZ9 | 6 |
| Lenovo 5m QSFP+ to 4xSFP+ Active Optical Cable | 00YL673 | ATZA | 6 |
| QSFP+ passive direct-attach copper cables - 40 GbE | | | |
| Lenovo 1m Passive QSFP+ DAC Cable | 49Y7890 | A1DP | 6 |
| | | | |

| Description | Part number | Feature code | Maximum quantity supported |
|--|-------------|--------------|----------------------------|
| Lenovo 3m Passive QSFP+ DAC Cable | 49Y7891 | A1DQ | 6 |
| Lenovo 5m Passive QSFP+ DAC Cable | 00D5810 | A2X8 | 6 |
| Lenovo 7m Passive QSFP+ DAC Cable | 00D5813 | A2X9 | 6 |
| QSFP+ passive copper breakout cables - 40 GbE to 4x 10 GbE | | | |
| Lenovo 1m Passive QSFP+ to SFP+ Breakout DAC Cable | 49Y7886 | A1DL | 6 |
| Lenovo 3m Passive QSFP+ to SFP+ Breakout DAC Cable | 49Y7887 | A1DM | 6 |
| Lenovo 5m Passive QSFP+ to SFP+ Breakout DAC Cable | 49Y7888 | A1DN | 6 |
| QSFP28 transceivers - 100 GbE | | | |
| Lenovo 100GBASE-SR4 QSFP28 Transceiver | 7G17A03539 | AV1D | 6 |
| Lenovo 100GBASE-LR4 QSFP28 Transceiver | 7G17A03540 | AV1E | 6 |
| Optical cables for 100 GbE QSFP28 SR4 transceivers | | | |
| Lenovo 5m MPO-MPO OM4 MMF Cable | 7Z57A03567 | AV25 | 6 |
| Lenovo 7m MPO-MPO OM4 MMF Cable | 7Z57A03568 | AV26 | 6 |
| Lenovo 10m MPO-MPO OM4 MMF Cable | 7Z57A03569 | AV27 | 6 |
| Lenovo 15m MPO-MPO OM4 MMF Cable | 7Z57A03570 | AV28 | 6 |
| Lenovo 20m MPO-MPO OM4 MMF Cable | 7Z57A03571 | AV29 | 6 |
| Lenovo 30m MPO-MPO OM4 MMF Cable | 7Z57A03572 | AV2A | 6 |
| Optical breakout cables for 100 GbE QSFP28 SR4 transceivers | | | |
| Lenovo 1m MPO-4xLC Breakout OM4 MMF Cable | 7Z57A03573 | AV2B | 6 |
| Lenovo 3m MPO-4xLC Breakout OM4 MMF Cable | 7Z57A03574 | AV2C | 6 |
| Lenovo 5m MPO-4xLC Breakout OM4 MMF Cable | 7Z57A03575 | AV2D | 6 |
| QSFP28 active optical cables - 100 GbE | | | |
| Lenovo 3m 100G QSFP28 Active Optical Cable | 7Z57A03546 | AV1L | 6 |
| Lenovo 5m 100G QSFP28 Active Optical Cable | 7Z57A03547 | AV1M | 6 |
| Lenovo 10m 100G QSFP28 Active Optical Cable | 7Z57A03548 | AV1N | 6 |
| Lenovo 15m 100G QSFP28 Active Optical Cable | 7Z57A03549 | AV1P | 6 |
| Lenovo 20m 100G QSFP28 Active Optical Cable | 7Z57A03550 | AV1Q | 6 |
| QSFP28 active optical breakout cables - 100 GbE to 4x 25 GbE | | | |
| Lenovo 3m 100G to 4x25G Breakout Active Optical Cable | 7Z57A03551 | AV1R | 6 |
| Lenovo 5m 100G to 4x25G Breakout Active Optical Cable | 7Z57A03552 | AV1S | 6 |
| Lenovo 10m 100G to 4x25G Breakout Active Optical Cable | 7Z57A03553 | AV1T | 6 |
| Lenovo 15m 100G to 4x25G Breakout Active Optical Cable | 7Z57A03554 | AV1U | 6 |
| Lenovo 20m 100G to 4x25G Breakout Active Optical Cable | 7Z57A03555 | AV1V | 6 |
| QSFP28 direct attach copper cables - 100 GbE | | | |
| Lenovo 1m Passive 100G QSFP28 DAC Cable | 7Z57A03561 | AV1Z | 6 |
| Lenovo 3m Passive 100G QSFP28 DAC Cable | 7Z57A03562 | AV20 | 6 |
| Lenovo 5m Passive 100G QSFP28 DAC Cable | 7Z57A03563 | AV21 | 6 |
| QSFP28 direct attach copper breakout cables - 100 GbE | | | |
| Lenovo 1m 100G QSFP28 to 4x25G SFP28 Breakout DAC Cable | 7Z57A03564 | AV22 | 6 |
| Lenovo 3m 100G QSFP28 to 4x25G SFP28 Breakout DAC Cable | 7Z57A03565 | AV23 | 6 |

| Description | Part number | Feature code | Maximum quantity supported |
|---|-------------|--------------|----------------------------|
| Lenovo 5m 100G QSFP28 to 4x25G SFP28 Breakout DAC Cable | 7Z57A03566 | AV24 | 6 |

The network cables that can be used with the switch are listed in the following table.

Table 4. NE2572O RackSwitch network cabling requirements

| Transceiver | Standard | Cable | Connector |
|---|--------------------|---|-----------|
| 10 Gb Ethernet | | | |
| 10Gb SR SFP+ (46C3447) 1/10Gb SFP+ (00MY034) | 10GBASE-SR | Up to 30 m with fiber optic cables supplied by Lenovo (see Table 3); up to 300 m with OM3 or up to 400 m with OM4 multimode fiber optic cables | LC |
| 10Gb LR SFP+ (90Y9412, 00FE331) | 10GBASE-LR | 1310 nm single-mode fiber optic cable up to 10 km | LC |
| 10Gb ER SFP+ (90Y9415) | 10GBASE-ER | 1310 nm single-mode fiber optic cable up to 40 km | LC |
| 10Gb RJ-45 SFP+ (7G17A03130) | 10GBASE-T | UTP Category 6a or 7 up to 30 meters | RJ-45 |
| Active optical cable | 10GBASE-SR | SFP+ active optical cables up to 20 m (seeTable 3) | SFP+ |
| Direct attach copper cable | 10GSFP+Cu | SFP+ DAC cables up to 7 m (seeTable 3) | SFP+ |
| 25 Gb Ethernet | | | |
| 25Gb SR SFP28 (7G17A03537) | 25GBASE-SR | Up to 30 m with fiber optic cables supplied by Lenovo (see Table 3); up to 70 m with OM3 or up to 100 m with OM4 multimode fiber optic cables | LC |
| Active optical cable | 25GBASE-SR | SFP28 active optical cables up to 20 m (seeTable 3) | SFP28 |
| Direct attach copper cable | 25GBASE-CR | SFP28 DAC cables up to 5 m (see Table 3) | SFP28 |
| 40 Gb Ethernet | | | |
| 40Gb SR QSFP+ BiDi (00YL631) | 40GBASE-SR BiDi | Up to 30 m with fiber optic cables supplied by Lenovo (see Table 3); up to 100 m with OM3 or up to 150 m with OM4 multimode fiber optic cables | LC |
| 40Gb SR4 QSFP+ (49Y7884) | 40GBASE-SR4 | Up to 30 m with MPO-MPO fiber optic cables supplied by Lenovo (see Table 3); up to 100 m with OM3 or up to 150 m with OM4 multimode fiber optic cables | MPO |
| 40Gb iSR4 QSFP+ (00D9865) | 40GBASE-SR4 | Up to 30 m with MPO-MPO fiber optic cables or up to 5 m with MPO-4xLC breakout cables supplied by Lenovo (see Table 3); up to 100 m with OM3 or up to 150 m with OM4 multimode fiber optic cables | MPO |
| 40Gb eSR4 QSFP+ (00FE325) | 40GBASE-SR4 | Up to 30 m with MPO-MPO fiber optic cables or up to 5 m with MPO-4xLC breakout cables supplied by Lenovo (see Table 3); up to 300 m with OM3 or up to 400 m with OM4 multimode fiber optic cables | MPO |
| 40Gb LR4 QSFP+ (00D6222) | 40GBASE-LR4 | 1310 nm single-mode fiber optic cable up to 10 km | LC |
| Active optical cable | 40GBASE-SR4 | QSFP+ to QSFP+ active optical cables up to 20 m; QSFP+ to 4x SFP+ active optical break-out cables up to 5 m for 4x 10 GbE SFP+ connections out of a 40 GbE port (see Table 3) | QSFP+ |

| Transceiver | Standard | Cable | Connector |
|----------------------------------|----------------------------|--|-----------------------|
| Direct attach copper cable | 40GBASE-CR4 | QSFP+ to QSFP+ DAC cables up to 7 m; QSFP+ to 4x SFP+ DAC break-out cables up to 5 m for 4x 10 GbE SFP+ connections out of a 40 GbE port (see Table 3) | QSFP+ |
| 50 Gb (2x 25 Gb) Ether | net | | |
| Direct attach copper cable | 25G/50G Eth. Consortium | QSFP28 to 2x QSFP28 DAC breakout cables (not supplied by Lenovo) | QSFP28 |
| 100 Gb Ethernet | | | |
| 100Gb SR4 QSFP28 (7G17A03539) | 100GBASE-SR4 | Up to 30 m with MPO-MPO fiber optic cables or up to 5 m with MPO-4xLC breakout cables supplied by Lenovo (see Table 3); up to 70 m with OM3 or up to 100 m with OM4 multimode fiber optic cables | MPO |
| 100Gb LR4 QSFP28 (7G17A03540) | 100GBASE-LR4 | 1310 nm single-mode fiber optic cable up to 10 km | LC |
| Active optical cable | 100GBASE-SR4 | QSFP28 to QSFP28 active optical cables up to 20 m; QSFP28 to 4x SFP28 active optical breakout cables up to 20 m for 4x 25 GbE connections out of a 100 GbE port (see Table 3) | QSFP28 |
| Direct attach copper cable | 100GBASE-CR4 | QSFP28 to QSFP28 DAC cables up to 5 m; QSFP28 to 4x SFP28 DAC breakout cables up to 5 m for 4x 25 GbE connections out of a 100 GbE port (see Table 3) | QSFP28 |
| Management ports | | | |
| 1 GbE port | 1000BASE-T | UTP Category 5, 5E, and 6 up to 100 meters | RJ-45 |
| RJ-45 serial port | RS-232 | DB-9 to RJ-45 cable (comes with the switch) | RJ-45 |
| Micro-USB port | USB 2.0 | Micro-USB (Type A) to USB (Type A) cable (comes with the switch) | Micro-USB (Type A) |

Software

The NE2572O RackSwitch includes the Open Network Install Environment (ONIE) which is a small Linux-based operating system that provides an open install environment for networking devices without operating systems. ONIE enables a network switch ecosystem for end users to choose among different Network Operating Systems by discovering NOS installer images and loading them onto the switch.

The following operating systems are certified for the NE2572O RackSwitch:

• Cumulus Linux

Configuration note: For SFP+/SFP28 ports, Cumulus Linux supports 10 GbE links on the ports 9 through 48 only (the ports 1 through 8 do not support 10 GbE links with Cumulus Linux).

The following table lists ordering information for the Cumulus software license and support options.

Table 5. Cumulus software license and support options

| Description | Part number | Feature code |
|---|-------------|--------------|
| Cumulus Linux for Leaf Nodes | | |
| Cumulus Linux for Leaf Nodes (10G, 25G) w/1Yr Cumulus Support | 7S0D0001WW | B3DH |
| Cumulus Linux for Leaf Nodes (10G, 25G) w/3Yr Cumulus Support | 7S0D0002WW | B3DJ |
| Cumulus Linux for Leaf Nodes (10G, 25G) w/5Yr Cumulus Support | 7S0D0003WW | B3DK |

| Description | Part number | Feature code |
|---|-------------|--------------|
| Cumulus NetQ | | |
| Cumulus NetQ (10G and greater) w/1Yr Subscription Unlimited Hosts | 7S0D000NWW | S1PZ |
| Cumulus NetQ (10G and greater) w/3Yr Subscription Unlimited Hosts | 7S0D000PWW | S1Q0 |
| Cumulus NetQ (10G and greater) w/5Yr Subscription Unlimited Hosts | 7S0D000QWW | S1Q1 |
| Cumulus Host Packs | | |
| Cumulus Host Pack w/1Yr Cumulus Support | 7S0D000AWW | B3DS |
| Cumulus Host Pack w/3Yr Cumulus Support | 7S0D000BWW | B3DT |
| Cumulus Host Pack w/5Yr Cumulus Support | 7S0D000CWW | B3DU |

Software support: Lenovo does not provide support for third-party software that is certified with the switch. Customers should contact a third-party software vendor directly to submit a software support request, and the software vendor will own the software-related problem resolution until closure.

Ethernet standards

The NE2572O RackSwitch supports the following Ethernet standards:

- IEEE 802.1Q VLAN tagging
- IEEE 802.3 10BASE-T Ethernet (Ethernet management port only)
- IEEE 802.3ab 1000BASE-T copper twisted pair Gigabit Ethernet (Ethernet management port only)
- IEEE 802.3ae 10GBASE-SR short range fiber optics 10 Gb Ethernet
- IEEE 802.3ae 10GBASE-LR long range fiber optics 10 Gb Ethernet
- IEEE 802.3ae 10GBASE-ER extended range fiber optics 10 Gb Ethernet
- IEEE 802.3an 10GBASE-T copper twisted pair 10 Gb Ethernet
- IEEE 802.3ba 40GBASE-SR4 short range fiber optics 40 Gb Ethernet
- IEEE 802.3ba 40GBASE-CR4 copper 40 Gb Ethernet
- IEEE 802.3ba 100GBASE-LR4 long range fiber optics 100 Gb Ethernet
- IEEE 802.3bj 100GBASE-CR4 copper 100 Gb Ethernet
- IEEE 802.3bm 100GBASE-SR4 short range fiber optics 100 Gb Ethernet
- IEEE 802.3by 25GBASE-CR copper 25 Gb Ethernet
- IEEE 802.3by 25GBASE-SR short range fiber optics 25 Gb Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet (Ethernet management port only)
- SFF-8431 10 Gb SFP+ Direct attach copper cable
- 25G/50G Ethernet Consortium

Cooling

The NE2572O RackSwitch ships with six variable speed, hot-swap fan assemblies that provide N+1 cooling redundancy.

Power supplies and cables

The NE2572O RackSwitch supports up to two load-sharing, redundant hot-swap 770 W AC Platinum power supplies (two power supplies come standard with the switch).

The NE2572O RackSwitch ships without any power cables. The part numbers and feature codes to order the power cables (two power cables are required per switch) are listed in the following table.

Table 6. AC power cable options

| | Part | Feature |
|---|------------|---------|
| Description | number | code |
| Rack power cables | | |
| 1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable | 39Y7937 | 6201 |
| 1.8m, 10A/100-250V, 2xC13PM to IEC 320-C14 Rack Power Cable | 43V6034 | 6568 |
| 2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable | 4L67A08366 | 6311 |
| 2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable | 39Y7938 | 6204 |
| 4.3m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable | 39Y7932 | 6263 |
| Line cords | | |
| Argentina 10A/250V C13 to IRAM 2073 2.8m line cord | 39Y7930 | 6222 |
| Australia/NZ 10A/250V C13 to AS/NZ 3112 2.8m line cord | 39Y7924 | 6211 |
| Brazil 10A/125V C13 to NBR 6147 2.8m line cord | 39Y7929 | 6223 |
| China 10A/250V C13 to GB 2099.1 2.8m line cord | 39Y7928 | 6210 |
| Denmark 10A/250V C13 to DK2-5a 2.8m line cord | 39Y7918 | 6213 |
| European 10A/230V C13 to CEE7-VII 2.8m line cord | 39Y7917 | 6212 |
| India 10A/250V C13 to IS 6538 2.8m line cord | 39Y7927 | 6269 |
| Israel 10A/250V C13 to SI 32 2.8m line cord | 39Y7920 | 6218 |
| Italy 10A/250V C13 to CEI 23-16 2.8m line cord | 39Y7921 | 6217 |
| Japan 12A/125V C13 to JIS C-8303 2.8m line cord | 46M2593 | A1RE |
| Korea 12A/250V C13 to KETI 2.8m line cord | 39Y7925 | 6219 |
| South Africa 10A/250V C13 to SABS 164 2.8m line cord | 39Y7922 | 6214 |
| Switzerland 10A/250V C13 to SEV 1011-S24507 2.8m line cord | 39Y7919 | 6216 |
| Taiwan 10A/250V C13 to CNS 10917-3 2.8m line cord | 00CG265 | A53E |
| Taiwan 15A/125V C13 to CNS 10917-3 2.8m line cord | 00CG267 | A53F |
| United Kingdom 10A/250V C13 to BS 1363/A 2.8m line cord | 39Y7923 | 6215 |
| United States 10A/125V C13 to NEMA 5-15P 4.3m line cord | 39Y7931 | 6207 |
| United States 10A/250V C13 to NEMA 6-15P 2.8m line cord | 46M2592 | A1RF |

Rack installation

The NE2572O RackSwitch ships with the 2-post rack mount kit. For 4-post rack installations, the NE2572O RackSwitch supports the optional adjustable 19-inch, 4-post rail kit and the air inlet duct (optional for the 4-post rail kit).

The following table lists rack installation options for the NE2572O RackSwitch switches with rear to front and front to rear airflow.

Table 7. Rack installation options

| Description | Part number | Feature code |
|--|----------------|--------------|
| Lenovo RackSwitch Adjustable 19" 4 Post Rail Kit | 00D6185 | A3KP |
| Air Inlet Duct for 487 mm RackSwitch | 00FM507 | ASTN |

Physical specifications

The NE2572O RackSwitch has the following physical specifications:

Height: 44 mm (1.7 in.)
Width: 441 mm (17.3 in.)
Depth: 487 mm (19.2 in.)

• Maximum weight: 11.4 kg (25.1 lb)

Operating environment

The NE2572O RackSwitch is supported in the following operating environment:

• Temperature: 0 - 40 °C (32 - 104 °F).

Relative humidity: 10 - 90% (non-condensing)

Altitude: Up to 2000 m (6,561 feet)
Acoustic noise: Less than 90 dB

Airflow: Rear-to-front cooling with variable speed fans for reduced power draw

• Electrical input: 50 / 60 Hz, 100 - 240 V AC auto-switching

Power consumption (maximum): 500 W
 Heat dissipation (maximum): 1706 BTI //ba

• Heat dissipation (maximum): 1706 BTU/hour

Warranty and support

The NE2572O RackSwitch comes with a 3-year Customer Replaceable Unit (CRU) hardware limited warranty with 9x5 Next Business Day (NBD) parts delivered. The hardware options that are installed in the switch assume the switch's base warranty and any Lenovo warranty service upgrade for the switch.

Software support: Lenovo does not provide support for third-party software that is certified with the switch. Customers should contact a third-party software vendor directly to submit a software support request, and the software vendor will own the software-related problem resolution until closure.

Lenovo's additional support services provide a sophisticated, unified support structure for a customer's data center, with an experience consistently ranked number one in customer satisfaction worldwide.

The following Lenovo support services are available:

- **Premier Support** provides a Lenovo-owned customer experience and delivers direct access to technicians skilled in hardware, software, and advanced troubleshooting, in addition to the following capabilities:
 - Direct technician-to-technician access through a dedicated phone line.
 - 24x7x365 remote support.
 - Single point of contact service.
 - End to end case management.
 - 3rd Party collaborative software support.
 - Online case tools and live chat support.
 - On-demand remote system analysis.
- Warranty Upgrades (Preconfigured Support) are available to meet the on-site response time targets that match the criticality of customer's systems:
 - 3, 4, or 5 years of service coverage.
 - 1-year or 2-year post-warranty extensions.
 - Foundation Service: 9x5 service coverage with next business day onsite response.
 - **Essential Service:** 24x7 service coverage with 4-hour onsite response or 24-hour committed repair (available only in select regions).
 - Advanced Service: 24x7 service coverage with 2-hour onsite response or 6-hour committed repair (available only in select regions).

Managed Services

Lenovo Managed Services provide continuous 24x7 remote monitoring (plus 24x7 call center availability) and proactive management of a customer's data center using state of the art tools, systems, and practices by a team of highly skilled and experienced Lenovo services professionals.

Quarterly reviews check error logs, verify firmware and operating system device driver levels, and software as needed. Lenovo will also maintain records of latest patches, critical updates, and firmware levels, to ensure customer's systems are providing business value through optimized performance.

Technical Account Management (TAM)

A Lenovo Technical Account Manager helps customers optimize operations of their data centers based on a deep understanding of customer's business. Customers gain direct access to a Lenovo TAM, who serves as their single point of contact to expedite service requests, provide status updates, and furnish reports to track incidents over time. Also, a TAM helps proactively make service recommendations and manage service relationship with Lenovo to make certain that customer's needs are met.

Health Check

Having a trusted partner who can perform regular and detailed health checks is central to maintaining efficiency and ensuring that customer systems and business are always running at their best. Health Check supports Lenovo-branded server, storage, and networking devices, as well as select Lenovo-supported products from other vendors that are sold by Lenovo or a Lenovo-Authorized Reseller.

Some regions might have different warranty terms and conditions than the standard warranty. This is due to local business practices or laws in the specific region. Local service teams can assist in explaining region-specific terms when needed. Examples of region-specific warranty terms are second or longer business day parts delivery or parts-only base warranty.

If warranty terms and conditions include onsite labor for repair or replacement of parts, Lenovo will dispatch a service technician to the customer site to perform the replacement. Onsite labor under base warranty is limited to labor for replacement of parts that have been determined to be field-replaceable units (FRUs). Parts that are determined to be customer-replaceable units (CRUs) do not include onsite labor under base warranty.

If warranty terms include parts-only base warranty, Lenovo is responsible for delivering only replacement parts that are under base warranty (including FRUs) that will be sent to a requested location for self-service. Parts-only service does not include a service technician being dispatched onsite. Parts must be changed at customer's own cost and labor and defective parts must be returned following the instructions supplied with the spare parts.

Lenovo support services are region-specific. Not all support services are available in every region. For information about Lenovo support services that are available in a specific region, refer to the following resources:

- Service part numbers in Data Center Solution Configurator (DCSC): http://dcsc.lenovo.com/#/services
- Lenovo Services Availability Locator https://lenovolocator.com/

For service definitions, region-specific details, and service limitations, refer to the following documents:

- Lenovo Statement of Limited Warranty for Infrastructure Solutions Group (ISG) Servers and System Storage
 - http://pcsupport.lenovo.com/us/en/solutions/ht503310
- Lenovo Data Center Services Agreement http://support.lenovo.com/us/en/solutions/ht116628

Services

Lenovo Services is a dedicated partner to customer success. Lenovo's goal for customers is to reduce capital outlays, mitigate IT risks, and accelerate time to productivity.

Here is a more in-depth look at what Lenovo can do for their customers:

Asset Recovery Services

Asset Recovery Services (ARS) helps customers recover the maximum value from their end-of-life equipment in a cost-effective and secure way. On top of simplifying the transition from old to new equipment, ARS mitigates environmental and data security risks associated with data center equipment disposal. Lenovo ARS is a cash-back solution for equipment based on its remaining market value, yielding maximum value from aging assets and lowering total cost of ownership for customers. For more information, see the ARS page, http://lenovopress.com/lp1266.

• Assessment Services

An assessment helps solve customer IT challenges through an onsite, multi-day session with a Lenovo technology expert. Lenovo performs a tools-based assessment which provides a comprehensive and thorough review of a company's environment and technology systems. In addition to the technology-based functional requirements, the consultant also discusses and records the non-functional business requirements, challenges, and constraints. Assessments help organizations, no matter how large or small, get a better return on their IT investment and overcome challenges in the ever-changing technology landscape.

Design Services

Professional Services consultants perform infrastructure design and implementation planning to support customer's strategy. The high-level architectures provided by the assessment service are turned into low level designs and wiring diagrams, which are reviewed and approved prior to implementation. The implementation plan will demonstrate an outcome-based proposal to provide business capabilities through infrastructure with a risk-mitigated project plan.

• Basic Hardware Installation

Lenovo experts can seamlessly manage the physical installation of customer's server, storage, or networking hardware. Working at a time convenient for the customer (business hours or off shift), the technician will unpack and inspect the systems on customer site, install options, mount in a rack cabinet, connect to power and network, check and update firmware to the latest levels, verify operation, and dispose of the packaging, allowing customers to focus on other priorities.

Deployment Services

When investing in new IT infrastructures, customers need to ensure that their business will see quick time to value with little to no disruption. Lenovo deployments are designed by development and engineering teams who know Lenovo products and solutions better than anyone else, and Lenovo technicians own the process from delivery to completion. Lenovo will conduct remote preparation and planning, configure and integrate systems, validate systems, verify and update appliance firmware, train on administrative tasks, and provide post-deployment documentation. Customer's IT teams leverage Lenovo skills to enable IT staff to transform with higher level roles and tasks.

Integration, Migration, and Expansion Services

Integration, Migration, and Expansion Services allow to move existing physical and virtual workloads easily, or to determine technical requirements to support increased workloads while maximizing performance. These services include tuning, validation, and documenting ongoing run processes, and they leverage migration assessment planning documents to perform necessary migrations.

Some service options may not be available in every region. For more information about Lenovo service offerings that are available in a specific region, contact a local Lenovo sales representative or business partner.

Regulatory compliance

The NE2572O RackSwitch conforms to the following regulations:

- Argentina IEC60950-1
- AS/NZS CISPR 22, Class A
- Canada ICES-003, Issue 4, Class A
- CE Mark (EN55022 Class A, EN60950-1, EN55024, EN61000-3-2, and EN61000-3-3)
- China CCC GB4943, GB9254 Class A, GB17625.1
- CISPR 22, Class A
- CSA C22.2 No. 60950-1
- FCC: Verified to comply with Part 15 of the FCC Rules, Class A
- IEC 60950-1 (CB Certificate and CB Test Report)
- Japan VCCI, Class A
- Korea KN22, Class A; KN24
- NOM-019
- Russia/GOST ME01, IEC-60950-1, GOST R 51318.22, 51318.24, 51317.3.2, and 51317.3.3
- Taiwan BSMI CNS13438, Class A; CNS14336-1
- TUV-GS (EN60950-1/IEC60950-1, EK1-ITB2000)
- UL/IEC 60950-1
- Reduction of Hazardous Substances (ROHS)

Related publications and links

For more information about the NE2572O RackSwitch, see the following resources:

- Lenovo RackSwitch InfoCenter
 - http://systemx.lenovofiles.com/help/topic/com.lenovo.systemx.common.nav.doc/overview rack switches.html
 - Lenovo ThinkSystem NE2572O RackSwitch Installation Guide
 - Lenovo ThinkSystem NE2572O ONIE User Guide
- Lenovo Data Center Support:
 - http://datacentersupport.lenovo.com
- Cumulus Linux User Guide
 - http://docs.cumulusnetworks.com/display/DOCS/Cumulus+Linux+User+Guide

Related product families

Product families related to this document are the following:

- 25 Gb Ethernet Connectivity
- Top-of-Rack Switches

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