Lenovo RackSwitch G8272 offers forty-eight 10 GbE and six 40 GbE ports in a 1U footprint

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At a glance

The Lenovo® RackSwitch G8272 (7159) is a low-cost, enterprise-class 10/40 Gb Ethernet solution made specifically for the data center. Features and functions include:

- 1U switch
- Forty-eight SFP+ ports with 1/10 Gb support
- Six QSFP+ ports with 10/40 Gb support
- Dual hot-swappable power supplies for redundancy
- Server-like airflow; front-to-rear or rear-to-front airflow
- VXLAN and OpenFlow support
- Rich Layer 2/Layer 3 software feature set with Lenovo Networking Operating System
- Average port-to-port latency of 0.6 microseconds
- Cut-through architecture, wire-speed
- Three-year hardware and software warranty

Overview

The Lenovo RackSwitch G8272 is an enterprise-class 10 Gb Ethernet switch designed for the data center. The Lenovo RackSwitch G8272 offers forty-eight 10 Gb Ethernet SFP+ ports in addition to six 40 Gb Ethernet QSFP+ ports, which provide clients with the ability to easily transition to 40 Gb Ethernet. Lenovo RackSwitch G8272 provides low power consumption with only 123 watts and is available with rear-to-front or front-to-rear airflow.

The G8272 is perfect for modern cloud deployments supporting many value added features including unified fabric port (UFP) to help improve performance and availability when using virtual NICs. UFP allows an SFP+ 10GbE port to be carved into as many as four virtual ports with the throughput speed of each port controlled by the switch.

The G8272 supports OpenFlow which helps easily create software defined virtual networks (SDN) and enables a remote controller to modify the behavior of network devices. The G8272 supports VXLAN in hardware for network virtualization through overlays, helping deliver faster reliable on demand capabilities.

The G8272 takes advantage of economics and performance of lossless Ethernet which can significantly improve performance, reliability, and predictability. The G8272 can help your data center evolve to a higher level by helping you to
consolidate server and storage networks into a single fabric. Converged enhanced Ethernet can help deliver value for your iSCSI, NAS, and FCoE enterprise storage environments. You can achieve lower costs, simplify management, attain higher performance, improve bandwidth utilization, and gain the flexibility your business needs.

**Planned availability date**

April 30, 2015

**Description**

**Lenovo RackSwitch G8272 product benefits**

This RackSwitch G8272 provides a low-cost, low-power, Gigabit Ethernet connectivity solution for data centers. The benefits of the RackSwitch G8272 include:

- Support for forty-eight 10 Gb Ethernet SFP+ ports and six 40 Gb Ethernet QSFP+ ports at a very attractive price
- Low power consumption of 123 watts contributing to lower overall TCO
- Front-to-rear or rear-to-front airflow, model dependent, which allows for flexible mounting of the switch in a server rack or datacom rack and provides significant savings in cooling costs
- Dual hot-swappable power supplies for redundancy
- Rich Layer 2/Layer 3 software set
- Lenovo standard 3-year hardware and software warranty
- Four hot-swappable fans for efficient cooling

**Performance**

- Full line-rate Ethernet traffic performance
- 1.44 Tbps switching architecture
- 0.6 microseconds average port-to-port latency

**Features**

**Interfaces**

- Forty-eight 10 Gb Ethernet SFP+ ports
- Six 40 Gb Ethernet QSFP+ ports
- 17.3 inches wide, 19.2 inches deep, 1U high rack mount
- One RS232 serial console port
- One USB 2.0 port and one RJ-45 10/100/1 G Ethernet management port

7159 RackSwitch G8272 with either front-to-rear or rear-to-front airflow:

- Dual hot-swappable power supplies to provide redundancy
- Four hot-swappable fans
- Rack mount
- Cable set
The following are newly announced features on the specified models of the Lenovo xSeries 7159 machine type:

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<td>A2X9</td>
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<td>IBM System Networking Adjustable 19&quot; 4 Post Rail Kit</td>
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<tr>
<td>IBM QSFP+ 40GBASE-LR4 Transceiver</td>
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<td>0.5m IBM Passive DAC SFP+ Cable</td>
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<td>7m IBM Passive DAC SFP+ Cable</td>
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IBM System Networking Recessed 19" 4 Post Rail Kit 7159 HCW
1.5m IBM Passive DAC SFP+ Cable 7159 HCV A51M
IBM SFP 1000Base-T (RJ-45) Transceiver 7159 HCV A5DL
IBM QSFP+ 40GBASE-iSR4 Optical Transceiver 7159 HCV A5U9
1m IBM MTP-4xLC OM3 MMF Breakout Cable 7159 HCV A5UA
3m IBM MTP-4xLC OM3 MMF Breakout Cable 7159 HCV A5UB
5m IBM MTP-4xLC OM3 MMF Breakout Cable 7159 HCV A5UC

Lenovo RackSwitch G8272 (Rear to Front) 7159 HCW ASRD
Lenovo RackSwitch G8272 (Front to Rear) 7159 HCV ASRE
Lenovo QSFP+ 40GBASE-iSR4 Transceiver 7159 HCW ASTM

The following are features already announced for the 3331 machine type:

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>Feature</th>
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<tbody>
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<td>Lenovo RackSwitch Hot-swap, Front-to-Rear Fan Assembly</td>
<td>HC1</td>
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<td>Lenovo RackSwitch Hot-swap, Rear-to-Front Fan Assembly</td>
<td>HC1</td>
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<tr>
<td>Lenovo RackSwitch Hot-Swap, Front-to-Rear 460W Power Supply</td>
<td>HC1</td>
<td>ASRH</td>
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<td>Lenovo RackSwitch Hot-Swap, Rear-to-Front 460W Power Supply</td>
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<tr>
<td>Air Inlet Duct for 487 mm RackSwitch</td>
<td>HC1</td>
<td>ASTN</td>
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</table>

The Lenovo RackSwitch G8272 Switch will be available in all European, Middle Eastern, and African countries except:

- Moldavia
- Mozambique

**Publications**

None.
Services

Global Technology Services®

Lenovo services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an on-demand business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for Lenovo and many non-Lenovo offerings. Lenovo is your one-stop shop for IT support needs.

For details on available services, contact your Lenovo representative.

For details on available Lenovo Business Continuity and Recovery Services, contact your Lenovo representative.

Technical information

Specified operating environment

Physical specifications

Dimensions

- Height: 1.72 in. (4.37 cm); 1RU
- Width: 17.3 in. (44.0 cm)
- Depth: 19.2 in. (48.7 cm)
- Weight: 20 lb (9.1 kg)

LEDs

- System LEDs to indicate system status

Airflow

- Front-to-rear or rear-to-front cooling, model dependent

Power

- Typical power = 123 W
- Maximum power = 240 W

Operating environment

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Operating temperature (fan failure): 32°F to 95°F (0°C to 35°C)
- Storage temperature: -40°F to 167°F (-40°C to 75°C)
- Operating altitude: Up to 6,000 ft (1,800 m)
- Non-operating altitude: Up to 40,000 ft (12,190 m)
- Relative humidity operating: 10% to 90% (noncondensing)
- Relative humidity nonoperating: 10% to 90% (noncondensing)

Acoustic noise

- Acoustic noise (sound pressure): Less than 72dB
- Acoustic noise (sound power): Less than 83dB
Standards
Safety certifications and standards

- UL60950-1
- CAN/CSA 22.2 No.60950-1
- TUV GS to EN 60950-1
- IEC60950-1, all country deviations
- CNS 14336-1
- Argentina Smark to IEC60950-1
- GB4943.1-2011
- EAC
- NOM-019

Electromagnetic compatibility certifications

- FCC 47CFR Part 15 Class A
- EN 55022 Class A
- ICES-003 Class A
- VCCI Class A
- AS/NZS CISPR 22 Class A
- CISPR 22 Class A
- EN 55024
- KC Class A
- CE

Homologation
This product may not be certified in your country for connection by any means whatsoever to interfaces of public telecommunications networks nor to be used in a public services network. Further certification may be required by law prior to making any such connection. Please contact Lenovo for information.

Compatibility
The Lenovo RackSwitch G8272 is designed to support network connectivity for servers:

- Lenovo ThinkServers
- Lenovo System x servers

In addition 40 Gb connectivity is possible from:

- Lenovo BladeCenter Chassis
- Lenovo Flex System Chassis

Planning information

Customer responsibilities
Upgrades: Customers must apply upgrades to any software images.

Cable orders
None.
Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Global Technology Services

Contact your Lenovo representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

Terms and conditions

Products - terms and conditions

To obtain copies of the Lenovo Statement of Limited Warranty, contact your reseller or Lenovo.

Warranty period

- Lenovo RackSwitch G8272 - Three years
- Optional features - One year

A Lenovo part or feature installed during the initial installation of a Lenovo machine is subject to a full warranty effective on the date of installation of the machine. A Lenovo part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. A Lenovo part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty effective on its date of installation. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

The following has been designated as consumables or supply items and is, therefore, not covered by this warranty:

- None

Warranty service

If required, Lenovo provides repair or exchange service, depending on the type of warranty service specified below for the machine. Lenovo will attempt to resolve your problem over the telephone or electronically by access to a Lenovo website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with Lenovo. You must follow the problem determination and resolution procedures that Lenovo specifies. Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside Lenovo's normal service area. Contact your local representative or your reseller for country- and location-specific information.

The type of service is Customer Replaceable Unit (for example, keyboard, mouse, speaker, memory, or hard disk drive) Service and On-site Service.

Customer Replaceable Unit (CRU) Service

Lenovo provides a replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from Lenovo at any time on your request. A CRU is designated as being either a Tier 1 (mandatory) or a Tier 2 (optional) CRU. Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If Lenovo installs a Tier 1 CRU at your request, you will be charged for the installation. You may install a Tier 2 CRU...
yourself or request Lenovo to install it, at no additional charge, under the type of warranty service designated for your Machine.

Based upon availability, a CRU will be shipped for next business day (NBD) delivery. Lenovo specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to Lenovo. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if Lenovo does not receive the defective CRU within 15 days of your receipt of the replacement.

The following parts or features have been designated as Tier 1 CRUs:

- RackSwitch unit
- Transceiver
- Cables and Serial Cable Kit

**International Warranty Service**

International Warranty Service (IWS) is available in selected countries or regions. The warranty service type and the service level provided in the servicing country may be different from that provided in the country in which the machine was purchased.

Under IWS, warranty service will be provided with the prevailing warranty service type and service level available for the IWS-eligible machine type in the servicing country, and the warranty period observed will be that of the country in which the machine was purchased.

To determine the eligibility of your machine and to view a list of countries where service is available, visit

http://www.lenovo.com/

**Licensing**

Programs included with this product are licensed under the terms and conditions of the License Agreements that are shipped with the system.

**Warranty service upgrades**

**Lenovo hourly service rate classification**

Two

**General terms and conditions**

**Field-installable features**

Yes

**Model conversions**

No

**Machine installation**

Customer setup. Customers are responsible for installation according to the instructions Lenovo provides with the machine.

**Licensed Internal Code and Licensed Machine Code**

This product does not contain Licensed Internal Code or Licensed Machine Code.
Prices

For additional information and current prices, contact your local Lenovo representative.

Warranty and maintenance - System x

Lenovo Service for Warranty Upgrade and Maintenance

Service can be purchased from your Lenovo Business Partner and are specific to the machines/products listed.

The Upgrade level of service is dependent on country.

Note: not all of these services are available in all countries. For a full list of Service offerings, country coverage, and prices refer to the Lenovo Services Product Selector Tool.

Machine 7159 Models CFV and CRW

Warranty and Maintenance Upgrade

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IOR = Lenovo Onsite Repair

Country notes:

(1) Estonia, Lithuania and Latvia ordered and register via Finland
(2) France coverage excludes overseas territories
(3) Kenya, restricted to Nairobi
(4) Morocco, restricted to 50 km of Casablanca/Rabat
(5) Nigeria, restricted to Lagos
(6) Tunisia, restricted to 50 km of Tunis
(7) UK, restricted to mainland only

Lenovo Global Financing

Lenovo Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both Lenovo and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local Lenovo Global Financing organization or visit
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We are dedicated to delivering a positive finance experience for customers like you who want to maximize your purchase power by obtaining the technology you need today, protect against technology obsolescence, and preserve your capital for other uses.

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