



# HP 5400R zl2 Switch Series

## Powerful, scalable, and flexible

Get ahead with an SDN-ready switch

### Innovation leader

For the second consecutive year, Gartner has identified HP as a **leader in the Magic Quadrant** (MQ), recognizing HP Networking as a “global access-layer vendor with its unified wired and wireless FlexCampus solution.”<sup>1</sup> Our MQ leadership and the achievement of being the **#2 in the enterprise switching** market<sup>2</sup> have been built with over 30 years of networking technology innovation. The successful HP 5400 Switch Series demonstrates how the HP expertise in technology and understanding of customer requirements creates the right solution for networks worldwide, today and tomorrow.

The new HP 5400R zl2 Switch Series delivers resiliency, flexibility, performance, and scalability for enterprise edge and core deployments for SMBs and branch offices. This compact chassis provides **three times the performance at a much lower TCO** compared to the competing solution from Cisco. Customers can opt for a pay-as-you-grow approach with a comprehensive portfolio of connectivity and service solutions. And with OpenFlow 1.3 support, the network is ready for SDN.

#### HP 5400R zl2 highlights

- Enterprise-class resiliency with hitless failover and power supply redundancy
- Advanced L2–L4 feature set with OSPF, IPv6, IPv4 BGP, and policy-based routing

- Redundant management, fabric, and power
- Full PoE+ provisioning on 288 ports
- SDN ready with OpenFlow 1.3

### Powerful

#### Purpose-built provision for ASIC

The power for the 5400R Switch Series comes from a fifth-generation HP Networking ASIC that is capable of wire-speed policy enforcement. This gives network managers hardware-based, granular control of access and traffic—for protecting, detecting, and responding to network threats, with no network performance degradation.

#### Resiliency with intelligent power management

The 5400R has unmatched resiliency with dual management modules for **hitless failover and non-stop switching**, a dual-fabric module, and superior intelligent power management redundancy (N+N). The Cisco 4507R-E is vulnerable to power failures due to its 1+1 setup and must be paired with additional SUP, which is cost prohibitive for access layer switching.

#### Robust virtualization

The 5400R Switch Series offers the benefits of virtualization with service modules for virtualized operating systems, servers, and support for applications such as Microsoft® Lync®.

### Scalable

#### Designed to grow

From the hardware design to the software supported, the 5400R Switch Series provides customers the ability to quickly meet new network demands with:

- 6- and 12-slot compact chassis for up to 288 1GbE ports and 96 10GbE ports
- Up to 9250 W PoE+ power for supporting 288 ports with internal power supplies

#### Ready for SDN

With support for OpenFlow 1.3, the 5400R Switch Series is ready to draw on the agility of SDN.

### Flexible

#### Deployment made simple

All the connectivity options needed for access-layer and small-core deployments:

- 1GbE, 10GbE (both SFP+ and **10GBASE-T**), and PoE+ modules
- Convenient combo modules for client connect and uplinks in a single module
- 36 percent smaller footprint compared to the Cisco 4500<sup>3</sup>

### Why the 5400R Switch Series wins

#### The right feature set

The 5400R Switch Series is designed specifically to meet the demands of the campus edge and SMB core—with an optimized architecture that delivers a **much lower TCO** than the competition. **Three times higher performance**<sup>3</sup>, up to **60 percent lower latency**<sup>4</sup>, full L3 feature set, full PoE+ for 288 ports, hitless failover, and 10GBASE-T connectivity.

#### Lower cost, today and tomorrow

The 5400R Switch Series can deliver savings up to 43 percent<sup>5</sup> over the Cisco 4507R-E. It has software features such as full L3 routing—with no software licensing to pay for—and includes Lifetime Warranty 2.0.

Table 1.

Configuration— redundant management	92 ports POE+ with 2 uplinks	236 ports PoE+ with 2 uplinks
HP 5406R	\$25,824 USD	\$53,867 USD
Cisco 4507R+E	\$45,463 USD	\$74,960 USD
<b>Savings with HP<sup>5</sup> 43%</b>		<b>31%</b>

#### Single-pane-of-glass management

HP Intelligent Management Center (IMC) provides a comprehensive, modular management platform with the flexibility and scalability needed to manage a multivendor network. IMC supports over 6,000 devices, including more than 1,400 from Cisco—with **a single management interface versus Cisco's 18**.

<sup>1</sup> “Magic quadrant for wired and wireless LAN infrastructure,” Tim Zimmerman and Mark Fabbi from Gartner, ID number: G00248361, September, 2013.

<sup>2</sup> “E19A Ethernet Switch total vendor table,” Dell’Oro Group, 3Q13.

<sup>3</sup> Based on data sheet comparison: [cisco.com/c/en/us/products/collateral/switches/catalyst-4500-series-switches/product\\_data\\_sheet0900aecd801792b1.html](http://cisco.com/c/en/us/products/collateral/switches/catalyst-4500-series-switches/product_data_sheet0900aecd801792b1.html)

<sup>4</sup> 64 and 1,518 byte packet-size comparison: [cisco.com/c/dam/en/us/products/collateral/switches/catalyst-6500-series-switches/miercom\\_report\\_cisco\\_catalyst\\_4500e\\_se.pdf](http://cisco.com/c/dam/en/us/products/collateral/switches/catalyst-6500-series-switches/miercom_report_cisco_catalyst_4500e_se.pdf)

<sup>5</sup> Based on the U.S. list price comparison: [cisco.com/web/strategy/government/wsca/pricelist\\_archive.html](http://cisco.com/web/strategy/government/wsca/pricelist_archive.html), March 2014, includes 3xCON-SNT-C4507REV

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## Resources

[hp.com/networking/5400R](http://hp.com/networking/5400R)

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**Table 2.** Feature comparison

Feature	Cisco 4503-E	Cisco 4507R+E	HP 5400R
Switching performance	928 Gb/s	928 Gb/s	<b>1056 Gb/s</b>
Throughput	250 Mp/s	250 Mp/s	<b>786 Mp/s</b>
Backplane performance	48G/48 ports	48G/48 ports	<b>80G/48 ports</b>
Rack space	7 RU	11 RU	<b>4–7 RU</b>
Max. 1GbE non-blocking ports	96	240	<b>288</b>
Max. PoE+ ports (100v/200v)	72 /96 (est.)	72 /232	<b>288 /288</b>
Latency <sup>6</sup>	5.3/9.1 $\mu$ s	5.3/9.1 $\mu$ s	<b>2.1/4.8 <math>\mu</math>s</b>
10GBASE-T	No	No	<b>Yes</b>
Redundant management	No	Yes	<b>Yes</b>
Power supply redundancy	1+1	1+1	<b>N+N</b>
Full L3	Yes; requires IP base license	Yes; requires IP base license	<b>Yes</b>
Virus throttling	No	No	<b>Yes</b>
IPv6 routing	Yes; requires IP base license	Yes; requires IP base license	<b>Yes</b>
Switch meshing	No	No	<b>Yes</b>
Virtualization	No	No	<b>Yes</b>
IPsec <sup>7</sup>	No	No	<b>Yes</b>
SDN support	No	No	<b>Yes</b>
Warranty	Limited lifetime	Limited lifetime	<b>Lifetime Warranty 2.0</b>

## Simplify and lower costs with Lifetime Warranty 2.0

The 5400R Switch Series has Lifetime Warranty 2.0, which includes lifetime warranty on most of the components, including power supplies and fan trays, as well as **three years of 24x7 phone support** as part of the purchase price. With the Cisco 4500, expensive SmartNet contracts are required to get this level of support.

## What customers say

### The right technology with lower TCO

"We're not an enterprise business; but we wanted the best technology for our needs. And it seemed to us that Cisco took their position as a networking leader for granted. When we looked at offerings from HP, we discovered we could achieve the **performance we wanted at a quarter of the cost,**" says Kameron Ball, Director of Technology, Clinton Public Schools

### Trust in HP

"HP is helping us take education beyond the classroom; and we feel good knowing that we've partnered with a company that is going to be around in a volatile market. If we need parts or service from HP in 15 years, I know we'll be able to get them," says Phillip P. Petru, Head of School, Cape Cod Academy

### Complete BYOD solution

"Using the fast-roaming capabilities of the MSM765 z1 Premium Mobility Controllers, we're able to manage our traffic as it moves throughout the museum, ensuring our users are receiving the best signal as they wander through the exhibits," says Robert Darin-Zanco, Networking Manager, Canadian Museum of Nature

### Learn more at

[hp.com/networking/5400R](http://hp.com/networking/5400R)

<sup>6</sup> 64 and 1,518 byte packet-size comparison: [cisco.com/c/dam/en/us/products/collateral/switches/catalyst-6500-series-switches/miercom\\_report\\_cisco\\_catalyst\\_4500e\\_se.pdf](http://cisco.com/c/dam/en/us/products/collateral/switches/catalyst-6500-series-switches/miercom_report_cisco_catalyst_4500e_se.pdf)

<sup>7</sup> Available with select service modules



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