

# Velocity HS Series Switches

## Accelerate Testing and Improve Efficiency with Automation Switches for Managing Lab Connectivity and Topology

Today's test lab teams face a myriad of challenges, ranging from keeping operating expenses (OpEx) costs like energy and labor in check to improving lab tool utilization and actively shortening test cycles. Keysight delivers a portfolio of flexible test lab automation and management products including a comprehensive series of Velocity HS Series Switches to virtualize, automate, and securely manage your physical layer fabric.



# Overview

The Velocity HS Series for test lab automation delivers flexible, multi-speed support in two different chassis options with QSFP-28 or QSFP-DD interfaces. All configurations offer high-speed connectivity with protocol, media type, and speed flexibility, in a pay-as-you-grow solution.

The HS Series enables you to automate your test lab with speeds up to 400 GbE. It also supports cabling options including multimode, single mode, AOC, and DAC, all in a single chassis that integrates seamlessly into your test environment.

Whether managing dedicated high-performance test labs or consolidated globally-accessible lab resources, the HS Series supports a wide range of port speeds and media types for managing network topologies within today's complex test labs.

## Highlights

- Port speeds from 1 to 400G Ethernet
- Deterministic latency to enable accurate test results
- Configurable on a per-port basis
- Support for multiple media types
- Support for aggregating multiple lower speed ports to a higher speed port
- Zero impact on test traffic
- Integrates seamlessly within the Velocity Automation Portfolio for complete lab automation
- Controlled by Velocity Core or third party automation systems

## HS Series Switch Benefits and Capabilities

Keysight has helped thousands of organizations increase utilization of lab equipment, automate lab management, and drive capital expense (CapEx) and OpEx savings by:

- Increasing test lab and resource sharing and efficiency
- Reducing time required to set-up and test
- Providing insight into lab and equipment use
- Improving lab performance by reducing manual errors

# Key Switch Features

- Flexible multi-speed support for 1, 10, 25, 40, 50, 100, 200, and 400 GbE
- Supports multiple media types: SM Fiber, MM Fiber, DAC, AOC
- Automated connections are instantaneous and assured
- Port speed and media type configuration on a per-port basis
- Port tapping for diagnostics and monitoring
- Traffic replication using one-to-many connections

🕒 Reduce Test Cycle Time

Take testbed set up from days to minutes

💰 Drive OpEx Savings



Achieve increased efficiencies and save on energy

🌐 Global Access

Teams obtain secure remote access to test beds from anywhere

Figure 1. Key switch features

# Velocity HS Series Form Factors

Model	Description
	<b>HS-6400</b> 64-Port, 2RU, 64 QSFP-28, 1/10/25/40/50/100 GbE
	<b>HS-3240</b> 32-Port, 1RU, 32 QSFP-DD, 1/10/25/40/50/100/200/400 GbE

# HS Series Scalability

HS series switches are easily scaled to meet connectivity requirements from 32 to 512 ports and beyond. Using a spine and leaf configuration managed by Keysight Velocity Core or Velocity TestStream, users gain tremendous flexibility in terms of port speeds, media types, and physical placement of switches.

# Additional Velocity Automation Switches

Test labs are challenged with the ever-changing landscape of ethernet speeds, test tools, and interface types. Velocity provides a variety of automation switches to support your test lab requirements and environments.

## Velocity 3900

Keysight Velocity 3900 Series switches for test lab automation serve as the focal point for managing lab connectivity and topology. The 3900 optimizes test lab operations by combining Layer 1 matrix switching into a scalable architecture. It offers flexible pay-as-you-grow configurations, with one, three, and 12 slot chassis options and a variety of interoperable optical-electrical-optical blades.

### Velocity Automation Portfolio



Figure 2. Velocity Automation Portfolio

The Velocity Automation Portfolio supports the complete automation of customer lab and testing environments for large enterprise, NEM, and service provider organizations. It is the only fully integrated solution to provide automation and management of lab resources, facilitate automated test suite creation, oversee lab connectivity and topology, and provide professional services for initiative success.

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at [www.keysight.com](http://www.keysight.com).



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