

400G Dedicated Switch Test Report



Overview

Dell Technologies commissioned Tolly to benchmark a 400GbE network fabric consisting of 10 Dell PowerSwitch Z9664F-ON switches with Dell Enterprise SONiC Distribution version 4. 0 in a RAIL optimized topology. This report provides the results. The Dell PowerSwitch line offers high-performance and high-port density that can serve as a network fabric for AI. Highly configurable, multi-protocol. Our Cisco Nexus 9000 Series Switches portfolio offers distributed modular, centralized modular, and fixed switches including super spine, spine, leaf, and border leaf. A new modular chassis design. H3C UniServer R6900 G6 server, running a full load of 777 high-load virtual machines, achieved a performance score of 13,880 points, setting a new record. H3C's sub-brand Aolynk, designed specifically for SMB (small and medium-sized business) in global markets. An ultra-compact, palm-sized AI. From its origins as an ultra-high performance technology, reserved for a few organizations with extreme networking demands, 400 Gigabit Ethernet (400GbE) has evolved into a mainstream technology providing significant advantages to network operators across a wide spectrum of use cases. Currently, 400Gbps is experiencing the strongest growth in deployments in data centres because the standard is in place and products are commercially.



Article Content

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Report: Dell PowerSwitch Z9664F-ON 400GbE Ethernet ...

Dell Technologies commissioned Tolly to benchmark a 400GbE network fabric consisting of 10 Dell PowerSwitch Z9664F-ON switches with Dell Enterprise SONiC Distribution version 4.3.0 in a RAIL

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FS D7000 400G OTN Validation Report | Performance & Reliability

Detailed performance and reliability testing of the FS D7000 400G OTN platform, validating optical transmission, service adaptability, protection switching, and long-term stability for

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Simplifying 400G for Data Centers

In this paper we review some of the key benefits of 400GbE, made universally accessible through Arista's broad portfolio of platforms, each designed to fit different workload types and scale

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Multi-Vendor 400G Coherent Optical Transceiver Interoperability Testing

To validate the efficacy of the 400G OpenZR+ solution, the OpenZR+ MSA group conducted Phase 1 and Phase 2 test events at LightRiver. The test results were successful in

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RXT-6400 400G Test Module

400G Module Highlights The RXT-6400 is the industry's first truly portable 400G test set supporting native PAM4 QSFP-DD and OSFP.

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H3C Tests 400G Interconnection Capabilities on Real

The H3C 400G data center switch and its 400G DSP & LPO optical module recently participated in an interoperability live demonstration. The H3C

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Scaling Data Center Networks: From 100G to 400G/800G Switches

Explore when and how to upgrade data center networks from 100G to 400G/800G switches. Learn about architecture evolution, AI workloads, and FS switch solutions for high

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400G Switch Deployment Surges: Latest Trends in 800G Data Center ...

Explore the latest surge in 400G switch deployment and the rise of 800G interconnect technology. Learn how AI is driving data center networking upgrades and how to future-proof your

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400GE Transceiver Characterization and Compliance Test

Test equipment with built-in de-embedding will simplify transceiver characterization considerably. There are many ways that errors may be introduced into the signal from the transmitter, through the

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Testing 400G

Next, the parameters that need to be tested to verify signal integrity are described in detail, along with some practical use cases for 400Gbps connections. Please note that while the focus of this White

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Data Center 400G Switch Q& A

Explore the most frequently asked questions about Asterfusion's 400G switches, including latency performance, RoCEv2, SONiC support, telemetry, and

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FS 800G& 400G Transceiver Acceptance Testing Guide | FS

Matching with switches: install the optical module with the finned top facing upward into the upper row ports of the switch (as shown in the left image). For the lower row ports, install the module with the

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400G DWDM Capacity Over Single Wavelength

400G over Single DWDM Wavelength Increasing data volumes and growing business needs all create extreme bandwidth demands that require deploying

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400GE Transceiver Characterization and Compliance Test

Transceiver manufacturers must thoroughly test new 400GE transceiver designs to verify they meet power limits set forth by industry standards while ensuring a smooth transition from current to next

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800G SR8 and 400G SR4 Compatibility Test Report

Test Conclusions FiberMall 800G OSFP SR8/400G Q112 SR4/400G OSFP SR4 modules meet the requirements for interface compatibility with Nvidia

Mar 08, 2026 Hot

MikroTik CRS804-4DDQ-hRM: 400G switch in test & overview

The MikroTik CRS804-4DDQ-hRM brings 400 Gigabit switching to the data center. Ports, breakout, areas of application and benefits at a glance.

Apr 29, 2026 Hot

6C-QSFP-DD-SR8-400G Test Report

Test Purpose In this report, we have conducted a comprehensive and professional evaluation of the QSFP-DD-SR8-400G optical transceiver. Our testing confirms the module delivers high-performance

Nov 20, 2025

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