

Lab Testing Summary Report

March 2012

Report SR120126

Product Category:

Enterprise Layer 2 Switch

Vendor Tested:



HUAWEI

Product Tested:

S2700-EI Series Switches



This is an excerpt, full report available at miercom.com/huawei

Key findings and conclusions:

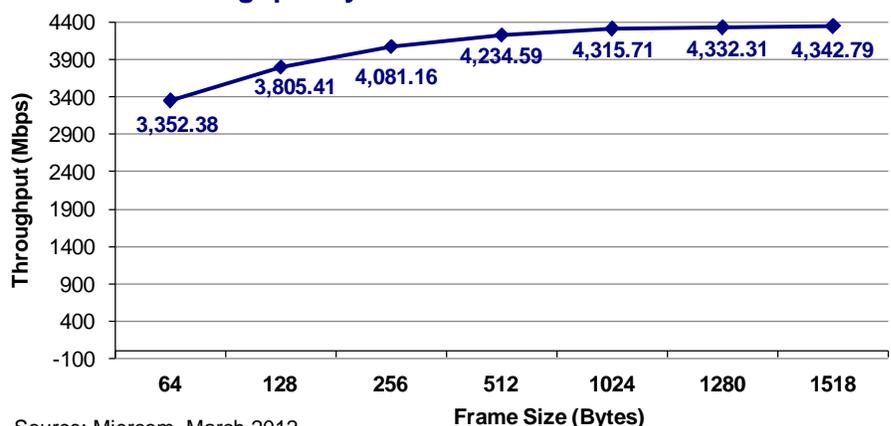
- Huawei S2700 is resilient and robust to meet enterprise reliability requirements
- High performing throughput capabilities
- Exceptionally large capacity for ACL, MAC address, and VLAN
- QoS capabilities allow prioritization and full functionality, even under heavy load
- Simplifying network complexity, E-Trunk also improves network reliability, eliminating the loop protection protocol (MSTP)

Huawei Technologies engaged Miercom to evaluate the S2700 series of 10/100Base-T Ethernet switches and show the versatility, performance, and functionality of these business enterprise switches.

The S2700 series of enterprise switches are next-generation energy-saving 100M Ethernet intelligent switches. The S2700 utilizes switching technologies and Huawei Versatile Routing Platform (VRP) software to meet the demand for multi-service provisioning and access on 100Base-T networks. Installation and maintenance for various scenarios is straightforward. The S2700 is a 1-rack-unit case-shaped device and is provided in a standard (SI) or enhanced (EI) version. The Full series contains the S2700-9TP-EI, S2700-18TP-EI, S2700-26TP-EI, S2700-52TP-EI, S2700-9TP-PWR-EI, and S2700-26TP-PWR-EI.

The S2700-26TP-PWR-EI switch was chosen for testing because it has the features and capabilities of the series, but represents the best performance the series has to offer.

Figure 1: Huawei S2700 Enterprise Switch Throughput by Frame Size



Source: Miercom, March 2012

Throughput increases on the Huawei S2700 switch as frame size increases, approaching the allowable line rate limit of 4400Mbps.

Miercom Performance Verified

The performance of Huawei S2700-26TP-PWR-EI enterprise-class switch was verified by Miercom. In hands-on testing, Huawei demonstrated advanced performance features such as:

- Huawei S2700 Huawei shows it is resilient and robust
- S2700 shows high performance and throughput
- ACL, MAC address, and VLAN table size exceed expectations for a switch of this class
- E-Trunk improves network reliability by eliminating the loop protection protocol (MSTP)



**S2700-26TP-PWR-EI
Switch**



HUAWEI

Huawei Technologies, Co., Ltd.

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About Miercom's Product Testing Services

Miercom has hundreds of product-comparison analyses published over the years in leading network trade periodicals including Network World, Business Communications Review, Tech Web - NoJitter, Communications News, xchange, Internet Telephony and other leading publications. Miercom's reputation as the leading, independent product test center is unquestioned.

Miercom's private test services include competitive product analyses, as well as individual product evaluations. Miercom features comprehensive certification and test programs including: [Certified Interoperable](#), [Certified Reliable](#), [Certified Secure](#) and [Certified Green](#). Products may also be evaluated under the [NetWORKS As Advertised](#) program, the industry's most thorough and trusted assessment for product usability and performance.



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