

Lab Testing Summary Report

March 2012

Report SR120120B

Product Category:

Enterprise Switch

Vendor Tested:



Product Tested:

S1700-28GFR-4P Switch



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

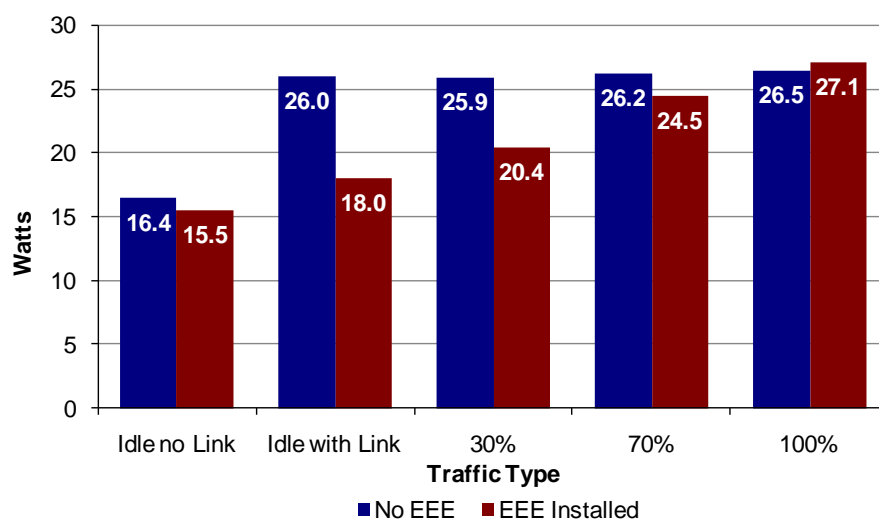
Key findings and conclusions:

- Huawei S1700-28GFR-4P switch provides one-button operation for system recovery, upgrade and information collection to streamline administration
- Interoperability proven through tests with Cisco switches
- Advanced features supported include DoS attack prevention, anti-worm function, IP and MAC source guard, and VCT
- Energy Efficient Ethernet (EEE) is supported, resulting in up to 30% power savings

Huawei Technologies engaged Miercom to evaluate the S1700 series of enterprise switches for feature support and energy efficiency. The S1700 series consists of maintenance-free, Web-managed, and SNMP-based switches. SNMP-based switches include S1700-28FR-2T2P, S1700-52FR-2T2P, S1700-28GFR-4P, and S1700-52GFR-4P. The S1700-28GFR-4P switch was tested but the discussion of features pertains to the entire series of switches.

Testing focused on the rich feature set and energy efficiency of the switch. Up to 30% power savings is realized by EEE support of the S1700-28GFR-4P switch. Energy Efficient Ethernet operates by shutting down port transmitters when traffic is not sent to save power. The figure below illustrates the power savings of the S1700-28GFR-4P when EEE was enabled.

Figure 1: Huawei S1700-28GFR-4P Power Consumption with Power-Saving EEE Disabled and Enabled



Power consumption of Huawei S1700-28GFR-4P switch was measured with Energy Efficient Ethernet enabled and disabled. With EEE enabled, the switch consumed from 5 to 30% less energy except under full load. When fully loaded, the switch cannot go into sleep mode for EEE use.

Miercom Performance Verified

The performance of Huawei S1700-28GFR-4P enterprise-class switch was verified by Miercom. In hands-on testing, Huawei demonstrated advanced performance features such as:

- One-button capabilities for system recovery, system upgrade and information collection
- Energy saving features, using EEE, result in 5 to 30% lower power consumption
- Interoperability with switches from other manufacturers
- DoS attack prevention, anti-worm function, IP and MAC source guard, and Virtual Cable Test



**S1700-28GFR-4P
Switch**



HUAWEI

Huawei Technologies Co., Ltd.

<http://enterprise.huawei.com>

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.



Miercom

Report SR120120B

reviews@miercom.com

www.miercom.com

 Before printing, please
consider electronic distribution

Product names or services mentioned in this report are registered trademarks of their respective owners. Miercom makes every effort to ensure that information contained within our reports is accurate and complete, but is not liable for any errors, inaccuracies or omissions. Miercom is not liable for damages arising out of or related to the information contained within this report. Consult with professional services such as Miercom Consulting for specific customer needs analysis.

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