

Lab Testing Summary Report

March 2012

Report SR120120

Product Category:

Enterprise Switch

Vendor Tested:



HUAWEI

Product Tested:

S1700-28GFR-4P-AC Switch



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

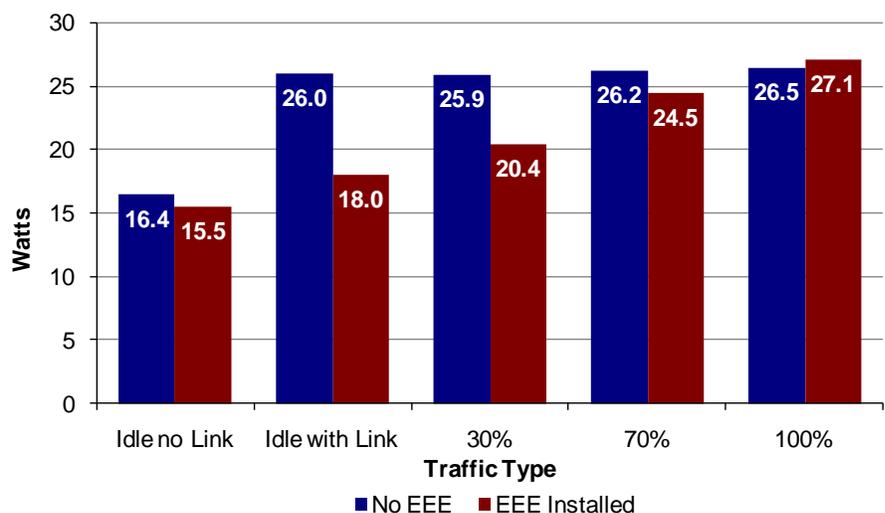
Key findings and conclusions:

- Huawei S1700-28GFR-4P-AC 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-AC 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-AC Power Consumption with Power-Saving EEE Disabled and Enabled



Source: Miercom, March 2012

Power consumption of Huawei S1700 enterprise 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-AC 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 Cut-Through



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



HUAWEI

Huawei Technologies Co., Ltd.

<http://www.huawei.com/enterprise>

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