

Sifos Technologies Newsletter

PowerSync Analyzer News

Volume II

May 2007

In This Issue

[Powered Device Analyzer, Software Updates](#)

[PowerSync Analyzer, High Powered PSE Testing](#)

[The Tolly Group, PSE Testing Comparison](#)

Powered Device Analyzer GUI Software Upgrade



PDA Interactive allows instrument interactive control and report generation from a host PC connected via a serial interface port.

A front panel screen interface is available to the user so that instrument configuration and control is identical to using the PDA-100 as a stand-alone box. The interface also automatically displays all captured parameters from a standard IEEE 802.3af PD test sequence. And, controls are provided to load test results

Sifos is excited to announce a comprehensive solution for testing and analysis of pre-standard high powered PSE's using existing PowerSync Analyzer and Programmable Loads. Sifos also introduces PC host software for the Powered Device Analyzer and an upcoming Tolly Group report where the PowerSync Analyzer was used to demonstrate the wide range of performance found in present generation PSE's.

PSE High Power Testing



With the anticipated release of IEEE 802.3at expected in 2008, first generation high power devices and Power Sourcing Equipment (PSE) are currently in active development throughout the networking industry. High power PSE's with capability to deliver well in excess of the 15.4 watt requirement of IEEE 802.3af PSE's are becoming available ahead of IEEE standard.

IEEE 802.3at will specify a "Medium Power" 2-pair solution for the delivery of up to 30 Watts of power to a Powered Device. PSE's will be required to deliver over 35 Watts of continuous DC power to fulfill this requirement. PSE's may range upwards of 39 Watts in continuous output capacity on a single PSE port delivered on either ALT A or ALT B transmission pairs. DC currents will exceed 700mA and overload thresholds will approach 850 mA to 900 mA in many cases.

The PowerSync Analyzer may be utilized today to test next generation high power PSE's and associated product prototypes. Sifos Technologies

into a standard PDA-100 spreadsheet report and to print results to a printer.

APD Load Monitoring graph display is also available to compliment the Load Monitoring mode of the instrument. Users may use this to observe PD load transients and peak load characteristics under conditions of steady state voltage or user controlled voltage levels over the duration of the load capture.

has incorporated into the PowerSync Analyzer capabilities to combine two physical test ports from a PowerSync Analyzer test blade to serve as a single high-power test port for the following purposes.

- Active Loading to 1000 mA total load
- PD Emulation including Class 4
- Voltage, Current, and Power Measurements
- *Fully Automated* High Power PSE Conformance Testing
- Packet Data Transmission Testing under Load

The only additional hardware required to enable high power PSE testing is a simple RJ-45 splitter available from Sifos as an integrated **PSA Port Combiner** assembly.

[To download the "PSA-1200 High Power Test" Application Brief please click here.](#)

Quick Links

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[Powered Device Analyzer](#)

[PSE High Power Testing](#)

[The Tolly Group](#)

The official PowerSync Analyzer software and firmware update for the high power PoE testing capability will be available soon. Please touch base with [Sifos Technologies](#) for additional information.



The Tolly Group worked closely with Sifos Technologies to study two different PSE's extensively and to report on observed ranges in performance in categories such as Static Power Delivery, Transient Power Delivery, Safety, Power Management Behaviors, and Interoperability Characteristics. Approximately 50 different parameters were analyzed with many surprising results.

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