

PD协议一致性测试仪器出租 SIFOS PDA-604A 802.3 AF/AT/BT PD

产品名称	PD协议一致性测试仪器出租 SIFOS PDA-604A 802.3 AF/AT/BT PD
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价格	.00/件
规格参数	
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产品详情

PD,协议一致性测试,仪器出租,SIFOS,PDA-604A,802.3,AF/AT/BT

产品介绍

SIFOS PDA-604A是802.3 AF/AT/BT PD协议一致性测试仪，可满足PD芯片/网络设备商PD功能及实现是否符合802.3 af/at/bt协议一致性要求，是一款用于测试IEEE 802.3bt和802.3atPoE供电设备的单机综合解决方案。

主要特性

一键式，全自动测试，并有限制的检查关键的受电设备PoE特性

通过在受电设备网络接口上执行测量，可以依照规范要求，准确评估对802.3at和802.3bt互操作至关重要的许多参数，从而避免了与802.3at / 802.3bt PSE相关的严格限制。

卓越的异常测试范围

PDA-604A提供的异常测试覆盖范围远远超出商用PSE或仪器级直流电源可能提供的范围。它提供电源并以所有可能的2线对和4线对连接和极性配置执行测量。测量包括直流负载与电压，容易地执行分类有效性，功率开关阈值，MPS有效性和测试特性，并与适用的规范限制进行比较。通过PD输入电压范围为28至57VDC，可以获取和测试每双电流高达1A或负载2A的负载电流。可以使用粒度为200usec的采样分辨率捕获偶发的瞬态负载。PDA-604A测试端口可以连接到10Base-T，100Base-Tx或1000Base-T的任何PD，并且可以选择在PD和外部网络设备之间中继多达10GBase-T的多gig链路。

灵活的802.3at PD自动测试

PDA-604A提供可选的802.3at PD一致性测试套件*和相关报告，可进一步选择Type-1或Type-1和2 PD测试，包括PoE LLDP协议测试。这种“一键式”测试套件可生成超过50个需要检查的PD参数。可以从PDA图形界面（GUI），PowerShell PD脚本环境或任何与Windows DLL连接的编程语言访问测试套件。测试结果以彩色Microsoft Excel电子表格形式生成，用于注释问题区域并提供多周期统计信息。

强大的实时负载监控和合规性分析

在PDA交互式软件下，PDA-604A提供强大的实时工具，用于在用户指定的PD功率授权（包括基于类别和LLDP授权）的约束下，在任意时间段内分析PD功率消耗。执行平均，峰值，瞬态和MPS功率的实时限制检查。

桌面就绪设计

PDA-604A可以在任何桌面或实验室工作台上使用USB进行托管。

技术参数

PD Classification – 802.3at

802.3at specification allows for PD 's to communicate their power demands to a PSE port via a classification process. From the perspective of a PSE port, PD 's can be classified as follows:

A Type-1 PSE has the option not to classify the PD in which case the PD must be assumed to require Class 0 power.

Classification is performed by applying a voltage in the band from 15.5V to 20.5V and measuring the fixed DC current load presented by the PD. The magnitude of measured current is then translated into a classification as follows:

The PSE is free to make decisions regarding current measurements that fall between the above bands. Classification must be completed in 75 mSec, so typically classification involves a short duration pulse with amplitude between 15.5 and 20.5 Volts. A “single-event” class pulse (see Figure 2.6) may return to zero or may hold its value (or anything in between) following completion of classification.

PD Classification – 802.3bt

The 802.3bt specification significantly extended the model of 2-Event classification so that PSE 's and PD 's could signal new classification bands that relate to power levels above Type-2 (Class 4). As with 802.3at, classification is a process that follows PD detection and precedes PSE powering of the PD.

802.3bt introduced nine new PD classifications, four that pertain to single signature PD 's and five that pertain to dual signature PD 's. 802.3bt also retained 803.2at PD classifications 1-4. As with 2-Event classification in 802.3bt, the count of classification pulses represents the method by which a PSE authorizes power levels to a PD.

The following table describes the 13 possible PD classifications described in the 802.3bt specification.

Unlike 802.3at, 802.3bt requires that classification currents drawn by the newer classes of PD 's change after the first two events are completed. The change in class current then encodes information regarding the power the PD demands. This difference enables 802.3bt PSE 's to differentiate between 802.3at PD 's where the classification signature never changes after the second class event and 802.3bt PD 's where that signature always changes. Figure 2.7 diagrams the relationship between PSE voltage and PD current draw during a 4-Event classification sequence.

典型应用

PDA-604A 分析仪提供以下全面的PoE PD分析和验证主要功能：

支持所有802.3bt / 802.3at PD的4线对和2线对供电和分析

可配置的分类和802.3bt / 802.3at功率授权

所有PD输入电压下的连续PD功率>82瓦

802.3bt / 802.3at PD性能参数综合分析

自动化IEEE 802.3at *供电设备一致性测试套件

灵活的802.3bt / 802.3at LLDP仿真和LLDP协议分析

强大的计量：PD接口的电压，电流和功率采样

用于快速分析和测试的直观图形用户界面

适用于Microsoft Windows的强大脚本自动化和二进制API库

信息弹出电子表格报告和统计

即插即用USB接口，连接到Windows PC

测试期间用于外部PD配置和控制的LAN端口

集成的单盒解决方案
