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## Greetings!

Here is an update of ULINK Technology's LATEST products and services. Please take a short moment to look through what we have to offer.

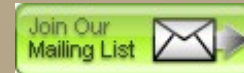
Sincerely

Marketing Team at ULINK Technology  
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## PCIe AHCI Testing

ULINK DriveMaster 2012 supports SSD over PCIe/AHCI, it allows user to test PCIe AHCI SSD command protocol and functions.

### PCIe-SSD Power Platform (PSPP)

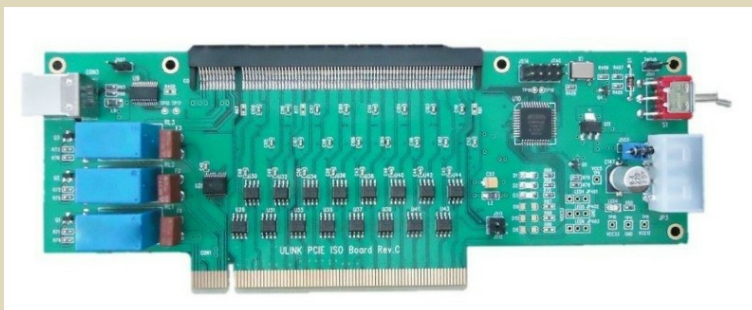
In PCIe testing, we offer a special device called the PCIe-SSD Power Platform (PSPP) for PCIe power cycle tests. With this equipment, the user will be able to run power cycle test for SSD over PCIe devices.



**PCIe-SSD Power Platform**

### PCIe-SSD Power Adaptor (PSPA)

For PCIe testing inside the system, we offer a device called the PCIe-SSD Power Adaptor (PSPA) for PCIe power cycle tests. The user can run power cycle test for SSD over PCIe devices.



**PCIe-SSD Power Adaptor**

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ULINK released two major test suites for SATA and PCIe AHCI SSD testing and validation in September 2013: SATA/ATA Protocol Test Suite (v3.9) and SATA/ATA Regression Test Suite (v3.1).

In addition to supporting SATA/ATA, both suites now support PCIe AHCI SSD devices (using ULINK's PCIe-SSD Power Platform hardware). These new test suites deliver test sequences through the DriveMaster 2012 AHCI device driver to test the entire SATA and T13 ATA commands.

[Click for PCIe-SSD Power Platform details](#)

[Click for ATA/SATA Protocol & Regression Test Suites details](#)

## Device Sleep Testing



***ULINK DevSlp Test Platform***

"DevSlp" is an important new feature from SSD. The validation of this new feature not only involves protocol tests, but also requires a particular system board and special hardware accessory.

ULINK produces the DevSlp test suite and test platform to be used with the DevSlp capable host systems. For customers who need to validate this new "DevSlp" feature but do not have the setup for it, ULINK can help by providing them **an easy and efficient "DevSlp" validation service.**

### **DevSlp Test Requirement**

Host with DevSlp supported

- Intel Haswell ULT chipset

ULINK DriveMaster 2012

- ULINK SSD DevSlp Test Platform
- ULINK SATA Protocol Test Suite v4.0

SSD DUT

- SATA SSD, mSATA SSD, m.2 SATA SSD

## SSD Power Cycle and Endurance Testing

Regression Test Suites are for testing the reliability of SSD devices under continuous stress and power cycles. These suites also validate the device endurance rating using JEDEC's client and enterprise endurance rating workloads.

ULINK releases the ATA /SATA Regression Test Suite (v3.1) for SATA and PCIe AHCI SSD testing and validation in September 2013.

The new features include:

- MD5 Power Cycle Test
- POR Timeout Test
- Power Interruption Write/Read Test
- JESD218A Enterprise Workload
- JESD218A Client Workload

## Testing Services

ULINK provides testing services for the SSD, HDD, and PCIe devices using ULINK's test tools and test suites. The test report includes a complete test condition, test time, and test results performed by ULINK. The report is a third party (ULINK) validation information for the customer's internal and external worksheet. Testing items include:

- a. ULINK SATA/SAS Test
- b. ULINK OPAL, IEEE1667 and ENT Test

### Test Package

ULINK Test Package (UTP) is a slot of test devices (e.g. 8 drives) that integrates ULINK hardware, software and testing suite into a package. Testing model includes functional and endurance tests. The testing period is usually four weeks.

### Specific Test Item

ULINK also provides test service for a specific testing item such as OPAL SSC, ENT SSC and IEEE1667 with TCG Silo. Each item of test comes with a complete test report, and is performed independently by ULINK's technical team.

## USB TCG Testing

ULINK has released TCG testing through USB interface. USB device that supports TCG SWG OPAL and Enterprise SSC can be tested with DriveMaster 2012.

## ULINK TCG Enterprise SSC Test Suite

ULINK is in the process of preparing the release of its TCG Enterprise SSC Test Suite for the enterprise storage devices. This test suite is designed and developed by ULINK to cover the Enterprise SSC features and functions based on the TCG specification. The suite runs with DriveMaster 2012 to verify the Enterprise SSC devices.

ULINK is offering a testing service for the ENT SSC before its official release. Please contact our Marketing team for more

details.

## SAS Protocol Test Suite Release

ULINK is in the process of preparing the release of its next level SAS/SCSI Protocol Test Suite for the enterprise storage devices. This test suite is an upgrade of the current revision 2.0 with many new features such as SAS DIF, Download Microcode, and UNMAP commands.

***If you would like more information including pricing and availability, please contact Edwin Kuo***  
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