

# ***SSD Alliance (SSDA)***

November , 2010  
[www.ssd-alliance.org](http://www.ssd-alliance.org)

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# SSD Alliance Quick Facts

- SSD Alliance = SSSDA
- A non-profit international based organization
- Launched on October, 2008
- Current Status:
  - Monthly/Quarterly Meetings Active
  - Open for Membership
- URL: [www.ssd-alliance.org](http://www.ssd-alliance.org)

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# Mission of the Alliance

- Develop compliance standard for SSD products to ensure the product quality
- Provide a common collaborating platform for developers in the SSD product chain
- Conduct industry standard works with global standard bodies (*ex. JEDEC, T13, SNIA, Microsoft and More*)

# Our Goal



# SSDA Milestone

- SSDA Found & Open for Membership
- Establish Marketing, Compliance & Technical Committees (Task Groups)
- Announced SSDA Compliance Program (v1.0~v1.4)
- Partnered with SNIA-SSSI (Solid-State Storage Initiative)
- Weekly Synchronization with JEDEC 64.8 discussions
- Exhibitions at Global Tradeshows
- Collaboration with JEDEC events
- Annual Review Meeting
- Hosting Periodic Technical Seminars
- Engaging SSD Test Report
- Exhibition at Computex Taipei 2010
- Announcing SSDA Compliance Test Guideline v1.5
- Weekly Synchronization with JEDEC 64.8 discussions
- Collaboration with JEDEC Flash Summit event
- And More...

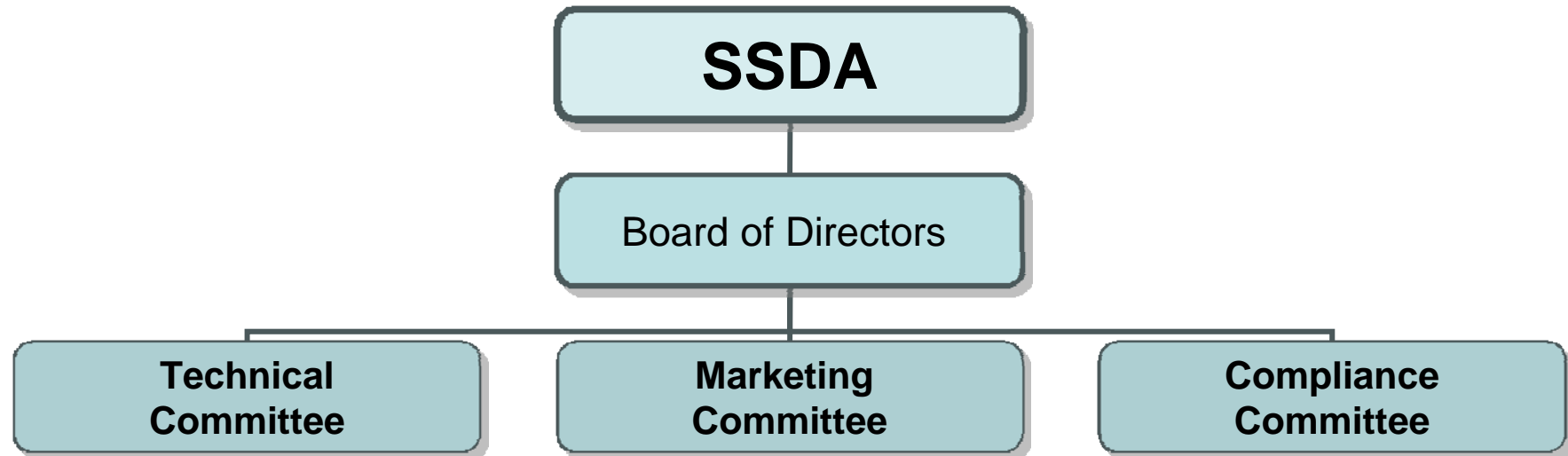


# SSDA 2010 Roadmap

| AR  | Schedule                  | Status                    |
|---|---------------------------|---------------------------|
| <ul style="list-style-type: none"> <li>➤ <b>Member F2F Meeting</b></li> <li>- All Member Meeting</li> <li>- Committee / TG Meeting</li> </ul>   | Monthly / Quarterly Basis | ✓ <b>Currently Active</b> |
| <ul style="list-style-type: none"> <li>➤ <b>SSD Products Testing Report</b></li> <li>- Test Execution</li> <li>- Test Result Release</li> </ul> | June 2010                 | ✓ <b>Complete</b>         |
| <ul style="list-style-type: none"> <li>➤ <b>Exhibition @ Computex Taipei 2010</b></li> </ul>  | June 2010                 | ✓ <b>Complete</b>         |
| <ul style="list-style-type: none"> <li>➤ <b>Announce SSD Compliance Test Guideline Version 1.5</b></li> </ul>                                   | July 2010                 | ✓ <b>Complete</b>         |
| <ul style="list-style-type: none"> <li>➤ <b>SSDA All Executives Meeting</b></li> </ul>  | Sept. 2010                | N/A                       |
| <ul style="list-style-type: none"> <li>➤ <b>JEDEC Flash Summit (Taipei) Sponsorship</b></li> </ul>  | Sept. 2010                | N/A                       |
| <ul style="list-style-type: none"> <li>➤ <b>Other Promotional Events</b></li> </ul>   | Q3 /Q4, 2010              | TBD                       |



# SSD Alliance Committees Structure



- Planning and creation of the technical work
- Lead and define SSD relevant standard in technical perspective
- Assemble the right personnel and call discussion meetings over SSD technical issues

- Develop and execute strategies to raise awareness of the SSDA
- promote the SSDA compliance program
- Manage Alliance with other standards organizations to build healthy working relationships

- Create compliance test spec.
- Identify and maintain all necessary policies, test tools and infrastructure to validate a tested devices and meeting the SSDA compliance test spec.

# SSD Compliance Test 1.4 vs 1.5



## **SSDA Compliance Program**

|  | <b>v1.4</b> | <b>v1.5</b> |
|--|-------------|-------------|
| <b>Mechanical Test</b><br>- Bus interface signal integrity   | ✓           | ✓           |
| <b>Reliability Test</b><br>- Stress, Power Cycle and Hot Plugs   | ✓           | ✓           |
| <b>Interoperability Test</b><br>- Interop with combination of PC / Chipset / OS                        | ✓           | ✓           |
| <b>Performance Test</b><br>- Benchmark comparison of your competition                                  | ✓           | ✓           |
| <b>Endurance Test</b><br>- Make sure the SSD will work for certain length of time (no data corruption) |             | ✓           |

# SSD Compliance Test Version 1.5

- **Mechanical Test**
  - For Location Connector: Follow SATA specification, SATA
  - For Signal and Power Connector: Follow SATA specification
- **Performance Test**
  - Run test on different benchmark tools and compare the result with Golden drives.
  - OS Installation Time
  - Windows Power Manager Performance Timing
  - Power Consumption
- **Reliability Test**
  - Stress Test
  - Power Cycling Test
  - Hot Plug Test
  - Plug/unplug the
  - Unexpected Power Failure Test
- **Interoperability Test**
  - Different Host controller / BIOS
  - Different OS
- **Endurance Test**
  - This is to fulfill the minimal requirement of at least 1 year life of
  - use without data lost. Design refers to the JEDEC “Client” class
  - application definition

# SSDA Officers 2009/2010

- Chair :
  - Summer Chien (Allion)
- Vice Chair :
  - Jet Huang (JMicron)
- Technical Committee Director :
  - Allen Yu (Phison)
- Compliance Committee Director :
  - Mark Lai (Allion)
- Marketing Committee Director :
  - Anne Tsou (Allion)

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# Membership Benefits

- **Executive Member**

- Carry or Use SSDA Certified Logo (Upon Testing)
- Access to SSDA Literatures & Documents
- Full Admissions to SSDA General F2F Meetings
- Attend SSDA Technical/Marketing oriented seminars, Plug-test Event, Technical Workshop, Testing Forum and Member F2F Meeting.
- Run for SSDA Officers
- Right to cast ballot for SSDA administrative affairs; technical, marketing and compliance proposals

- **Affiliate Member**

- Carry or Use SSDA Certified Logo (Upon Testing)
- Access to SSDA Literatures & Documents
- Attendance to one SSDA F2F Meeting per year

# Current Members

## Executive & Affiliate Members

A-DATA Technology Co., Ltd.

Alcor Micro, Corp.

Allion Test Labs, Inc.

Apacer Technology Inc.

ASMedia Technology Inc.

CoreSolid Storage Corporation

ENE Technology Inc.

Huawei Symantec Tech. Inc. Ltd.

Hugetech Electronics Co, Ltd

ITE Tech, Inc.

JMicron Technology Corp.

Kingspec Electronics Tech. Co.,Ltd

Marvell Technology Group Ltd.

MemoCom Corporation

Memoright Memoritech Co. Ltd.

Phison Electronics Corp.

Power Quotient International Co. Ltd (PQI)

Silicon Motion, Inc. (SMI)

Silicon-Power Computer & Communications Inc.

Silicon Storage Technology, Inc.

Solid State System Co.,Ltd

Last update: Q2/2010



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# Sign up for Membership

- **Use the online sign-up system:**
  - <http://www.ssdalliance.org/membership-join.asp>
  
- **Contact SSD Alliance Administration:**
  - [admin@ssdalliance.org](mailto:admin@ssdalliance.org)
  
  - **Tel: +886-2-26557877 ext. 2021**