

Attendance:

Mr. Paul von Stamwitz	AMCC
Mr. Greg McSorley	Amphenol
Mr. Mickey Felton	EMC
Mr. Elwood Parsons	Foxconn Electronics
Mr. Barry Olawsky	Hewlett Packard Co.
Mr. Dan Colegrove	Hitachi Global Storage Tech.
Mr. Harvey Newman	Infineon Technologies
Dr. Mark Seidel	Intel Corp.
Mr. Michael Jenkins	LSI Corp.
Mr. George O. Penokie	LSI Corp.
Mr. Gabriel Romero	LSI Corp.
Mr. Kevin Witt	Maxim Semiconductor
Mr. Galen Fromm	Molex Inc.
Mr. Jay Neer	Molex Inc.
Mr. Gourgen Oganessyan	Quellan
Mr. Joseph Chen	Samsung
Mr. Edward Chang	Samsung
Mr. Alvin Cox	Seagate Technology
Mr. Benoit Mercier	STMicroelectronics
Mr. Bent Hessen-Schmidt	Synthesys Research, Inc.
Mr. Sanjay Sethi	Toshiba
Mr. Dan Gorenc	TycoElectronics
Mr. Scott Shuey	TycoElectronics
Mr. Larry McMillan	WDC
Mr. Ramya Dissanayake	WDC

25 in attendance

Agenda

1. SAS Reverse Keying Proposal 20080731 [Neer]
<http://www.t10.org/ftp/t10/document.08/08-322r0.pdf>

All on the call agreed to the concept but dimensions are needed to verify the concept works. Jay will update 08-322 with drawings that will be included in the connector SFF specification so that a review can be done prior to the next teleconference. It was verified that position 3 is the location of the key/slot.

The reference to 7-meter cable needs to be corrected. The actual characteristic that determines whether the key is required (i.e., a SAS 2.0 receiver is required) is the loss of the cable rather than the length. The description should be changed as done in the following description regarding Mini SAS 4x external cable keying:

Cables having more loss than specified by the TCTF test load shall include a key at position 3 in addition to the key slots for its particular application.

Jay will also talk to STA about the marking requirements. Alvin suggested two icons instead of only one on the cables. The ability to support this seemed reasonable from a connector aspect. Feedback is needed from the enclosure community.

2. Update on simulation tools.

No update from Anthony.

Kevin has generated test cases and is working with Mahbubul and Mike Jenkins to compare StatEye results with DFEI results. Still need to resolve issues on legal aspects regarding WDP.

3. 08-312 SAS-2: Making 07-193 into an annex [Penokie]

<http://www.t10.org/ftp/t10/document.08/08-312r1.pdf>

Reviewed the proposal and made several editorial comments. Decided that the Touchstone files are normative and would be easiest to include the file reference in the main text. The updated proposal is available at the link above.

4. Updates to Quellen presentation on powered cables.

<http://www.t10.org/ftp/t10/document.08/08-052r6.pdf>

The document updates are in process. An update should be posted prior to the next conference call. The STA presentation at the T10 plenary indicated a preference of a non-keyed connector that would support 12Gbps rates. They are concerned that the using of grounds for the power aspects may cause issues at higher rates. Also, since the active cable does not support backwards compatibility (won't work with a non-powered slot), a new connector that provides the grounds is not unreasonable.

Although the cable does not support a non-powered port, will a powered port support a non-powered cable?

Molex and Quellen will present data to STA regarding 12Gbps support.

5. New items.

Due to T11 next week, there will be no call.

Alvin will not be available on 8/21.

Next call in two weeks.

Schedule:

Next conference call: Aug 14, 2008

There will be no calls on Aug 7 or 21.

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PARTICIPANT CODE: 3243413

Webex information:

<https://seagate.webex.com/seagate>

Topic: SAS-2 PHY WG

Date: Thursday

Time: 10:00 am, Central Daylight Time (GMT -05:00, Chicago)

Meeting number: 826 515 680

Meeting password: 6gbpsSAS