

Accredited Standards Committee  
INCITS, Information Technology

Doc. Number:  
Date: 10/8/08  
Project:  
Reply to: Dean Wallace

TO: MEMBERSHIP of T11.2

FROM: Dean Wallace Vice-Chair Electrical Working Group  
Dean Wallace Secretary Electrical Working Group

Subject: Approved minutes of electrical working group 10/8/08

AGENDA

1. Opening remarks and introductions
2. Attendance and membership
3. Approve agenda
4. Document Distribution
5. Review minutes of previous meeting and review of minutes from interim meeting.
6. Review old action items
7. Call for patents
8. Presentations
  - 8.1 Adaptive transmitter for 16GFC, Adam Healey, LSI, 08-555v0
  - 8.2 16GFC Coding Recommendations, Dave Stauffer, IBM, 08-541v0
  - 8.3 FC-PI-3 comment review
9. Project review
  - 9.1 FC-PI-3
  - 9.2 MSQS
10. Review action items
11. Call for electrical ad hoc chair
12. Next meeting schedule
13. Adjourn

## RESULTS OF MEETING

### 1. Opening remarks and introductions

Dean Wallace, vice-chair, led the meeting. He opened the meeting at 2:00pm on Wednesday. Dean thanked the host EMC. He then led a round of introductions.

### 2. Attendance and Membership

Attendance at plenary meetings does count toward minimum attendance requirements for T11.2 membership. Working group meetings are open to any person or organization directly and materially affected by T11.2's scope of work but do not count toward minimum attendance for T11.2 membership.

The following people attended this meeting:

<u>AGILENT TECHNOLOGIES</u>	<u>Joachim Vobis</u>
AVAGO TECHNOLOGIES	<u>David Cunningham</u>
AVAGO TECHNOLOGIES	<u>Randy Clark</u>
AVAGO TECHNOLOGIES	<u>Rita Horner</u>
BROCADE	<u>Robert Snively</u>
EMC CORPORATION	<u>Jason Pritchard</u>
EMULEX	<u>Hossein Hashemi</u>
EXCELIGHT COMMUNICATIONS, INC.	<u>Mark Furumai</u>
FINISAR	<u>Jim Tatum</u>
FINISAR	<u>Paul Gentieu</u>
FINISAR CORPORATION	<u>Richard Johnson</u>
HEWLETT-PACKARD COMPANY	<u>Barry Maskas</u>
HITACHI GLOBAL STORAGE TECHNOLOGIES	<u>Dan Colegrove</u>
IBM MICROELECTRONICS	<u>David Stauffer</u>
JDS UNIPHASE	<u>Mike Dudek</u>
LSI CORP.	<u>Adam Healey</u>
LUXTERA	<u>Tom Palkert</u>
PANDUIT CORPORATION	<u>Robert Elliot</u>
TEXAS INSTRUMENTS	<u>Rajeev Jain</u>
UNIVERSITY OF NEW HAMPSHIRE	Daniel Reynolds
XYPATEX	Paul Levin

### 3. Approval of Agenda

The motion was approved by acclamation. There were no objections.

### 4. Document distribution

Operating under the procedures of the American National Standards Institute. INCITS SECRETARIAT, Information Technology Industry Council (ITI), 1250 Eye street NW, Suite 200, Washington DC, 20005-3922, Email: [incits@itic.org](mailto:incits@itic.org) Telephone 202-737-8888, FAX 202-638-4922

This section describes the availability of draft documents that are intended to be published as a result of work by the electrical working group.

Document distribution is now being done over the web. Documents relating to the electrical working group work can be found on the T11 website ([www.t11.org](http://www.t11.org)) by going to “documents” and searching on the key word electrical.

A summary of the presently active policy to document distribution is included for reference.

All presentations are posted electronically at the approved ftp within two weeks after the meeting. Format must be an approved electronic file format.

Presentations are defined as material shown publicly in the plenary or authorized working group meetings.

Submission of documents for T11 document numbers: An online system is now available to provide document numbers and accept the submission of documents. The system is accessed via the T11 web page at <http://www.t11.org>. Follow the “docs” link in the left hand frame, or at the bottom, and fill in a form giving details of the document. In order to complete the form, it will be necessary to enter a password. The password is given out at T11 meetings, or can be obtained from the T11 chair. Instructions will then be given about uploading the file to the ftp site.

We now use all electronic document distribution.

A T11.2 reflector is operational over the T11 site.

The committee forms its agenda by the following:

1. A call (reminder) for presentations by the chair three weeks in advance.
2. Those wanting to be on the agenda submit request including; title, presenter, time required, abstract.
3. Chair creates an agenda and posts two weeks before the meeting.
4. At the meeting it is the chair’s discretion to allow additional presentations.

**5. Review minutes of previous meeting and review of minutes from interim meeting**

Motion to approve minutes from previous meeting Hossein Hashemi (Emulex), Jim Tatum (Finisar).

**6. Review old action items**

No old action items

## **7. Call for patents**

The chair showed presentation 08-406v0. The presentation was also on the USB stick that was distributed.

## **8. New discussions/presentations**

### **8.1 Adaptive transmitter for 16GFC, Adam Healey, LSI, 08-555v0**

The adaptive transmitter is valuable for 16GFC. Adam looked into re-using the 10GBASE-KR functional model. A straw poll was taken, the straw poll and results are below.

Extend protocol for 16GFC to include transmitter and receiver adaptation to allow an initialization period and a back channel.

Yes: 15 No: 0 Abstain:4

### **8.2 16GFC Coding Recommendations, Dave Stauffer, IBM, 08-541v0**

Dave reviewed that 64b/66b encoding is feasible from a SERDES standpoint if multiple PLL are used. The proposal for the 16GFC operational line rate is 16.1667Gb (5/3 divider). The multiple clocks will be muxed so they are simultaneously available.

## **9. Project Review**

FC-PI-3: No action.

MSQS Liason, Dean reviewed the MSQS work being completed.

## **10. Review action items**

No new action items

## **11. Call for Electrical ad hoc chair**

A call was made for the electrical ad hoc chair. Mike Jenkins will no longer be able to be the electrical ad hoc chair. We would like to thank Mike for his many contributions to T11.2.

Adam Healey (LSI) has agreed to be the new electrical ad hoc chair. Hossein Hashemi (Emulex) will be the vice-chair.

## **12. Next meeting schedule**

The next meeting is Wednesday December 10<sup>th</sup> from 2:00pm to 4:30pm in CanCun

Request two teleconference calls.

## **13. Motion to adjourn**

Motion to adjourn: Paul Levin (XYRATEX) seconded by Rajeev Jain (TI).