

Accredited Standards Committee\*  
INCITS, Information Technology

Doc. Number:  
Date: 12/05/06  
Project:  
Reply to: Mike Jenkins  
Dean Wallace

TO: MEMBERSHIP of T11.2

FROM: Mike Jenkins Chair Electrical Working Group  
Dean Wallace Vice-chair Electrical Working Group  
Dean Wallace Secretary Electrical Working Group

Subject: Approved minutes of electrical working group 12/05/06

#### 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. New business/presentations
  - 8.1 Proposal for delta point output amplitudes, 06-789v1, Mike Jenkins, LSI.
  - 8.2 Basic 8GFC issues, 06-719v1, Tom Lindsay, ClariPhy.
  - 8.3 JSPAT spectral analysis, Mark Marlett, LSI
  - 8.4 Review of presentation for FCIA, Tom Palkert Xilinx
9. Project review
  - 9.1 FC-PI-3
  - 9.2 FC-PI-4
10. Old business/presentations
11. New business
12. Review action items

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- 13. Next meeting schedule
- 14. Adjourn

**RESULTS OF MEETING**

**1. Opening remarks and introductions\***

Mike Jenkins, chair, led the meeting. He opened the meeting at 2pm on Tuesday. Mike thanked the host Ali Ghiasi of Broadcom. 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:

NAME	COMPANY	TELEPHONE NUMBER
Rick Hernandez	Agilent	
Greg McSorley	Amphenol	508-829-6523
Ali Ghiasi	Broadcom	408-922-7423
Dave Skirmont	Brocade	408-333-5565
Tom Lindsay	ClariPhy	425-608-0209
Doug Coleman	Corning	828-901-5580
Stephen Alie	Cortina Systems	693-591-1950
Jinhua Chen	EMC	508-249-4527
Hossein Hashemi	Emulex	714-885-3609
Richard Johnson	Finisar	408-542-4233
Stephen Nelson	Finisar	408-542-4999
Mike Fitzpatrick	Fujitsu	405-820-5809
Dan Colegrove	Hitachi	702-614-6119
David Stauffer	IBM	802-769-6914
Scott Schube	Intel	510-578-5815
Mitch Ito	JDSU	805-218-1246
Dave Lewis	JDSU	408-546-5448
Mike Jenkins	LSI Logic	408-433-7901
Mark Marlett	LSI Logic	408-954-3760
Jan Filip	Maxim	1495139959867

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Galen Fromm	Molex	630-718-5270
Jay Neer	Molex	561-447-2907
Mike Dudek	Picolight	303-530-3189
Larry Barnes	QLogic	719-237-9822
Mark Owen	Qlogic	952-908-2326
Dean Wallace	Qlogic	949-389-6480
Allen Kramer	Seagate	952-402-2624
Mike Fogg	Tyco	717-986-5802
George Noh	Vitesse	805-445-2247
Tom Palkert	XILINX	952-401-7997

### **3. Approval of Agenda\***

The motion to approve the Agenda was made by Jay Neer (Molex) and seconded by Dean Vermeersch (Tyco).

### **4. Document distribution**

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.

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We now use all electronic document distribution.

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

The committee forms it's 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, Mark Marlett (LSI), seconded by Al Krammer (Seagate). There was no objection to approving the minutes.

Minutes from interim meeting were reviewed.

## **6. Review old action items**

Tom Lindsay will create the 500 bit test pattern for compliance. Complete and was presented at the November 8<sup>th</sup> interim meeting.

Mike Jenkins will generate signal tolerance pattern. Complete and was presented at the November 8<sup>th</sup> interim meeting.

## **7. Call for patents**

The chair noted that the formal call for patents is issues at the T11.2 and T11 plenary meetings. Companies with patents that may bear on the subject of this ad hoc are advised to consider this call for patents. There was no response for this call for patents.

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

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### **8.1 Proposal for delta point output amplitudes , 06-789v1, Mike Jenkins, LSI.**

Delta T output amplitude induces crosstalk to the delta R signal and delta R output amplitude induces crosstalk to the delta T signal, so delta T and delta R should be close in amplitude. Backward compatibility dictates that 8GFC amplitudes aren't too different from 2GFC and 4GFC. The crosstalk contributor diagram was reviewed.

The eye mask simplification proposal was reviewed. The proposal is to make the TX eye mask diamond shaped just like the RX eye mask.

The delta T (limiting and linear), B=350mV (700mVpp max amplitude) and A=90mV (180mVpp minimum eye opening) and X1=0.155UI.

The delta R (limiting), B=450mV (900mVpp maximum amplitude), A=150mV (300mVpp minimum amplitude) , X1 = 0.355UI.

There was a long discussion about the amplitudes and how they are tested.

### **Motion Dave Skirmont (Brocade), seconded Ali Ghiasi (Broadcom)**

The delta R spec B value for 8GFC is 425mV for limiting and linear and the A value for 8GFC is 170mV for the limiting case. The minimum VMA spec for linear is not changing.

Yes	12
No	5
Abstain	9

Motion passes.

### **8.2 Basic 8GFC issues, 06-719v1, Tom Lindsay ClariPhy. \***

Tom reviewed the progress so far and went over action items that are still needed. Some new items were added to the list.

### **8.3 JSPAT Spectral analysis, Mark Marlett, LSI**

The spectral content of the JSPAT as presented in 06-787v0 was reviewed. The spectral content of PN7, K28.5 and JTSPAT were reviewed. The different FFT windows were reviewed. The raw Fourier transform was reviewed.

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Tom Lindsay reviewed his data.

#### **8.4 Review of presentation for FCIA, Tom Palkert, Xilinx**

Tom reviewed the proposed 8GFC schedule for 2007. The goal is optical technical stability for 8GFC in February.

#### **9. Project Review**

FC-PI-3: No action.

FC-PI-4:

Worked on comment resolution. Spreadsheets were updated as comments were accepted or deleted.

Motion for editor FC-PI-4 Hossein Hashemi to resolve all the editorial comments submitted by Tom Lindsay and Mike Dudek. There were no objections, accepted by acclimation.

#### **10. Old business/presentations**

No old business.

#### **11. New business\***

Mark Marlett LSI agreed to be the T11.2 secretary replacing Bill Ham.

#### **12. Review action items**

#### **13. Next meeting schedule**

The next meeting is Wednesday from 2pm to 5:00pm in Dana Point Feb 6<sup>th</sup>.  
Request an interim meeting on January 10<sup>th</sup>.  
Request two telecom.

#### **14. Motion to adjourn**

Motion to adjourn: Mark Marlett (LSI) seconded by Tom Lindsay (ClariPhy).

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