

Accredited Standards Committee*
INCITS, Information Technology

Doc. Number:
Date: 10/04/06
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 10/04/06

AGENDA

1. Opening remarks and introductions
2. Attendance and membership
3. Approve agenda
4. Document Distribution
5. Review minutes of previous meeting
6. Review old action items
7. Call for patents
8. New business/presentations
 - 8.1 SFP+ Channel Data Description, 06-683v0, Ali Ghiasi, Broadcom.
 - 8.2 8GFC Jitter Test Pattern Expectations, 06-732v0, Tom Lindsay, ClariPhy.
 - 8.3 Plug and Play at the Delta Point (Bill Ham, HP)
9. Project review
 - 9.1 FC-PI-3
 - 9.2 FC-PI-4
10. Old business/presentations
11. New business
12. Review action items
13. Next meeting schedule

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14. Adjourn

RESULTS OF MEETING

1. Opening remarks and introductions*

Mike Jenkins, chair, led the meeting. He opened the meeting at 9 am on Wednesday. Mike thanked the host Mike Fitzpatrick of Fujitsu. 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
Adam Healey	Agere	978-691-3067
Ali Ghiasi	Broadcom	408-922-7423
Tom Lindsay	ClariPhy	425-608-0209
Doug Coleman	Corning	828-901-5580
Jinhua Chen	EMC	508-249-4527
Hossein Hashemi	Emulex	714-885-3609
Richard Johnson	Finisar	408-542-4233
Mike Fitzpatrick	Fujitsu	405-820-5809
Ryan Latchman	Gennum	905-632-2996
Bill Ham	HP	978-828-9102
David Stauffer	IBM	802-769-6914
Rodrigo Natal	Intel	408-892-4865
Dave Lewis	JDSU	408-546-5448
Mike Jenkins	LSI Logic	408-433-7901
Mark Marlett	LSI Logic	408-954-3760
Galen Fromm	Molex	630-718-5270
Arthur Macdougall	Phyworks	UK 1179749000
Mike Dudek	Picolight	303-530-3189
Brett Clark	PMC-SIERRA	610-289-5213
Doug Hopperstad	QLogic	952-932-4007
Mark Owen	Qlogic	952-908-2326

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Dean Wallace	Qlogic	949-389-6480
Hitoshi Okamura	Samsung	Korea 821312095927
Allen Kramer	Seagate	952-402-2624
John Schroeder	Smiths Aerospace	616-241-7574
Massimo Pozzoni	ST Microelectronics	Italy 0390293519714
Rajeev Jain	TI	214-480-2778
Andrew Nowak	Tyco	508-752-2884
Mike Fogg	Tyco	717-986-5802
Mike Li	Wavecrest	408-452-4186
Tom Palkert	XILINX	952-401-7997
Paul Levin	XYRATEK	310-372-7352

3. Approval of Agenda*

The motion to approve the Agenda was made by Paul Levin (Xyratek) and seconded by Mark Marlett (LSI).

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) 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

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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 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*

Motion to approve minutes from previous meeting, Mark Marlett (LSI), seconded by Brett Clarke (PMC-SIERRA). There was no objection to approving the minutes.

6. Review old action items

None

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

8.1 SFP+ Channel Data Description , 05-683v0, Ali Ghiasi, Broadcom.

The files that were provided (.s4p) were reviewed. Files for both microstrip and stripline with PT enhanced connector were measured. The uploaded file is 06-683v0.zip. The

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models are based on Nelco 4000-13. The striplines have through vias and the stubs are 50 mil. The performance of the stripline looks good.

The NEXT was also simulated. There were some resonances around 4GHz that came up to about -39dB. The recommendation made was that averaging should be used in these measurements. It was pointed out that averaging probably isn't needed, these resonances are probably generated from the fixture. It was asked if the time domain crosstalk could be shown.

It is strongly encouraged that other people look at crosstalk and bring data into the meetings.

8.2 8GFC Test Pattern Expectations, 06-732v0, Tom Lindsay ClariPhy.*

In Sept interim discussed the need for two patterns, one for RX compliance and one for PWS, around 500 bits, TX test. Most people can do strictly a test pattern. Compliance will be based on the 500 bits only, it won't be in a compliant frame.

The longer pattern that Mike Jenkins is doing is a test pattern for the RX. A table needs to be developed as to which pattern will be used for which test.

8.3 Plug and Play at Delta Point, Bill Ham, HP

Postponed until this afternoons FC-PI-4 meeting.

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 Bill Ham 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.

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11. New business*

No New business.

12. Review action items

Tom Lindsay will create the 500 bit test pattern for compliance.

Mike Jenkins will generate signal tolerance pattern.

13. Next meeting schedule

The next meeting is Wednesday from 9am to 12:30 in Palm Springs Dec 6th.

Request one telecom.

14. Motion to adjourn

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

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