

Minutes of T11.1 HIPPI Optical Ad Hoc Working Group

October 11, 2001
San Diego, CA

1.0 Opening remarks and introductions

The T11.1 Chairman, Roger Ronald of VIEO, opened this meeting at 8 AM and thanked Craig Stuber and JNI for hosting this meeting.

This group is constituted as both the HIPPI Working Group under T11.1, and the High Performance Networking Forum (HNF) - Technical Committee (TC).

The list of attendees is at the end of these minutes.

Roger Ronald lead a round of introductions. Roger will record and produce the final HIPPI-6400 Optical minutes separate from the other HIPPI minutes.

2.0 Review / modify the draft agenda

Draft agendas were distributed via e-mail before the meeting.

There were no changes.

These minutes reflect the approved agenda.

3.0 Document distribution

Roger described the HIPPI web page at www.hippi.org. Meeting documents are placed there and people are encouraged to pick up the documents before the meeting as extra documents are generally not available at the meeting.

4.0 Review minutes of previous meeting

The minutes of the August 9th, 2001 HIPPI Optical Working Meeting on the Big Island of Hawaii were reviewed.

The document notes on HIPPI-6400-OPT was moved to precede the Infineon Application note section. The date listed in the action items for the previous meeting was corrected.

David Hyer moved and Sean Murphy seconded a motion to approve the August 9th, 2001 optical working meeting minutes as corrected.

The motion passed without objection.

5.0 Review action items

The action items from the August 9, 2001 meeting were reviewed.

1. Roger Ronald to produce the minutes for the August, 2001 meeting. **(done)**
2. Roger Ronald to create a FAQ on the website to explain the various options for optical interfaces on HIPPI-6400. **(carryover)**
3. Tom Murphy to update the Infineon application note. **(carryover)**
4. Tom Murphy to verify the DC mode of SuMAC operation produced sufficient voltage swing for the Infineon parts. **(done)**
5. Lars Leininger of Infineon to investigate the Infineon part behavior with respect to coupled power ratio. **(carryover)**
6. Lars Leininger of Infineon to determine if the new laser safety class type should be "1M" or "1". **(done)**

6.0 Presentations

None.

7.0 HIPPI-6400-OPT, Revision 2.3, dated 4/1/2001

7.1 Status

This document was forwarded to T11 for further processing. T11 approved a letter ballot for HIPPI-6400-OPT and that ballot concluded on June 4.

The vote results were 57 for, 0 opposed, 0 abstentions, 15 not voting.

4 ballots included comments which were resolved at the last meeting. T11.1 and T11 then voted to send the document to NCITS for public review.

The document apparently had not yet entered public review by meeting time, but subsequently it was

listed as starting public review on 10/05/01. The review completion date is 11/19/01.

The chair sent an email to the administrator for T11 (Tracy Supnet on 9/21/01) as follows:

Tracy,

I still don't see HIPPI-6400-OPT (project 1249-D) in public review. I've contacted NCITS and they claim to be waiting on action by T11 to resolve the T11.1 comments made last year that pulled the document out of standards processing. I believe that you're supposed to send an email asking if our comments have been resolved.

T11.1 is only planning to meet in October and December. If this matter is not resolved VERY soon, the public review will not complete prior to T11.1's last meeting. This implies that years of standards effort may be lost and that the document may never become a standard. I really don't want to see that happen.

Please contact Deborah Donovan at NCITS if you have any questions.

RR

At the subsequent T11 meeting, the T11 chair (Kumar Malavalli) was given an action item to send T11.1 a letter about the resolution of the first public review comments made by T11.1.

7.2 Comments on document

A few comments were made on the optical document during the August meeting.

1. The word "respect" on page 19 was misspelled as "resect"
2. No specification limit was provided for "coupled power ratio". This ratio specification prevents fibers with a center line defect from failing by requiring that the light coupled into the fiber be distributed across a certain percentage of the face. Lars Leininger of Infineon agreed to take an action item to investigate the Infineon part behavior in this area.
3. In the transmitter section of table 4 on page 20, the note numbers are incorrect. Instead of note "3" and note "4", the numbers should be note "4" and note "5" respectively.

4. In the references section, ISO/IEC 60825-1 should be updated to be ISO/IEC 60825-1 (2000) Safety of Laser Products-Part 1, amendment 2.
5. Since ISO/IEC 60825-1 has been superseded, there is no "class 3A" as mentioned in note 2 on table 4 (page 20) and note 2 in table 5 (on page 21). Lars Leininger of Infineon determined type the new class should be "1".

These comments were reviewed during this meeting with an eye towards resolving them without requiring additional processing steps. The group decided that comments 1, 3, 4, and 5 were editorial (either errors or reflecting the updating of other documents). The chair took an action item to see if the ANSI editor could handle these directly or if a public review comment should be made.

Item 2 was deemed to be a technical change (adding a specification that was not yet part of the document). David Hyer agreed to investigate "coupled power ratio" and see if it really was a concern for HIPPI-6400-OPT given the absence of installed fiber and the additional margin that we have over gigabit Ethernet. The general consensus was that this specification might be left out without significant concern.

8.0 Infineon Application Note

During the June meeting, the HIPPI-6400 optical application note from Infineon was reviewed. The author, Tom Murphy, was not in attendance, but Richard Johnson took notes for his co-worker.

- Voltage input swings to the SuMAC appeared inadequate, but the HIPPI-6400-PH spec indicated a different number should be used (rather than the one currently captured in the app note). We will assume the 6400-PH spec is correct in the absence of a definitive statement from SGI.

The information received at this meeting indicated that SGI approved the interface as one that would work properly, but it was unclear if that was the result of unspecified margin. At the very least, a note should be added to indicate that the design will work despite the apparent spec conflict.

- Arie Van Praag sent a couple of comments that were passed onto Richard and Tom. One questioned the lack of references to existing work,

the other questioned the supported distances.

The chair took an action item to email Arie to get the complete references.

- Brian Breuer of Genroco questioned the clock signal connections and the group asked Tom Murphy to reverify the pinouts against the list on the web site (on the HIPPI-6400-OPT standards document page).

The chair took an action item to quiz Robert Clarkson about the skew between Clock 1 and Clock 2.

9.0 Call for patents

Roger issued a call for disclosure of the existence of patents required to implement the results of any and all HIPPI standards. It is necessary for the patent holders to agree to license those patents in conformance with the ANSI patent policy if the project on which they apply is to proceed. T11 and its Task Groups are not involved in this process at all other than to issue the call and forward paperwork.

The contact at ANSI is the General Counsel, Ms. Amy Marasco - (212) 642-4954 or amarasco@ansi.org. A patent policy description is at www.ansi.org/proctbl.html, section 1.2.11.

No new patent claims were made at this meeting.

10.0 Planning for future work

Meetings after the end of the year will end unless new blood can be found to continue the work of the committee (see the Plenary minutes for details).

The December meetings will be the last ones held and they will follow the current schedule of meeting at 8AM on Thursday.

11.0 Future meeting schedule

11.1 December 6, 2001, Austin, Texas

The last Optical working group meeting will be held December 6th from 8 AM till 10 AM during the December, 2001 Plenary week in Austin, TX.

The hotel information is available at the www.hippi.org web site.

11.2 Future meeting dates and locations

The Optical working group will meet on Thursday mornings (8 AM till 10 AM) during the T11 Plenary week, before the HIPPI plenary meeting.

2001

Dec 3-7 Austin, TX Crossroads

12.0 Review action items

The following action items were carryovers or were added at this meeting.

1. Roger Ronald to produce the minutes for the October, 2001 meeting.
2. Roger Ronald to create a FAQ on the website to explain the various options for optical interfaces on HIPPI-6400.
3. Tom Murphy to update the Infineon application note.
4. Richard Johnson of Infineon to investigate the Infineon part behavior with respect to coupled power ratio.
5. Tom Murphy to resolve the voltage swing issue in the Infineon application note.
6. Roger Ronald to send an email to Arie Van Praag asking that he send specific references to Tom Murphy of Infineon.
7. Roger Ronald to ask Robert Clarkson about Clock 1/2 signal skew.
8. Roger Ronald to submit the editorial comments directly to the ANSI editor (if he'll take them) or to make a public review comment.
9. David Hyer to investigate coupled power ratio specs and see if there's really a concern for HIPPI-6400-OPT.

13.0 Adjournment

Richard Johnson moved and Sean Murphy seconded to adjourn the meeting at 9 AM on October 11th.

Attendance

Name	Status	Company	Phone	E_mail
David Hyer	P	Compaq Computer Corp.	508-467-4550	david.hyer@compaq.com
Greg Hart	O	Honeywell	408-864-7239	greg.hart@honeywell.com
Richard Johnson	O	Infineon	408-501-5657	richard.johnson@infineon.com
Sean Murphy	O	SGI	301-595-2468	smurphy@sgi.com
Roger Ronald	P	Vieo, Inc.	972-437-9461	rronald@vieo.com