

Minutes of T11.1 Ad Hoc meeting on HIPPI-6400 Optics  
October 6, 1998  
Ft. Lauderdale, FL

## **1. Opening remarks and introductions**

The Vice Chairman, Roger Ronald of PMR, opened this meeting at 6 PM and thanked Norm Harris and Adaptec for hosting this meeting. Roger lead a round of introductions. The list of attendees is at the end of these minutes.

## **2. Selection of secretary**

Roger Ronald thanked Arun Agarwal for taking the meeting notes for the August meeting, and solicited a volunteer to take the meeting notes for this meeting. Since everyone took two steps backwards when asked for volunteers, Roger Ronald took notes and will produce the final HIPPI-6400 Optical minutes separate from the other HIPPI minutes.

## **3. Review / modify the draft agenda**

Draft agendas were distributed via e-mail before the meeting. An agenda item was added for a presentation on the MTP connector by John Keesee of US Conec. These minutes represent the approved agenda.

## **4. Document distribution**

Roger described the HIPPI web page at <http://www.cic-5.lanl.gov/lanp/ANSI/>, stated that the appropriate documents would be placed there, and encouraged people to pick up the documents before the meeting as extra documents would not be available at the meeting.

## **5. Review minutes of previous meeting**

The minutes of the August 11, 1998, meeting in Portsmouth, UK, were reviewed. Michael Griffin moved, and Shelto Van Doorn seconded, to approve

the August 11 minutes as written. Motion passed unanimously.

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

The action items from the August meeting were reviewed:

1. Greg Chesson, Steve Joiner, Mark Donhowe, and Dan Brown to resolve the jitter budget and specification line items (Done, based on text provided to web site, except for SGI review)
2. Dan Brown to address the open issues concerning the eye mask in 7.1. (Carryover, pending resolution of action number 1)
3. Steve Joiner to run the ATM model noise power penalty model with connection loss numbers of 0.75 dB to 1.25 dB. (Carryover)
4. Don Tolmie to update HIPPI-6400-OPT Rev 0.6 with the changes agreed to at the August meeting. (Done)
5. Arie van Praag to forward the CERN testing presentation to Tolmie for posting on the web site. (Done)
6. Arun Agarwal to investigate jitter testing with the SuMAC chip. Discuss with Greg Chesson. (Carryover)
7. Dan Brown to reply to Siemen's "MT connector problem presentation" at a future meeting. (Done-presentation made by John Keesee)

## **7. Presentations**

### **7.1 MTP Connector Technology**

John Keesee of US Conec made a presentation of some findings with the MTP connector. His complete presentation will be provided for posting on the web site.

US Conec received several sets of parts that Siemens had studied for the presentation that was made last month. In general, the parts appeared to be within their specifications. However, one pin was bent and it was theorized that this condition was the root cause of the observed damage.

The study size was small and further study seems warranted on the topic. Further discussion seems very likely at the next meeting.

## **8. Jitter discussion**

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During this meeting it became apparent that meaningful progress on the jitter and timing budget depends on having both the optical experts and the SuMAC experts in the same place, or at least in the same conversation (i.e. teleconference).

The optical folks believe that they have a set of numbers that close on the requirements for HIPPI-6400 and that no further progress can be made without confirmation or objection to the SuMAC's portion of the budget.

Resolution of the timing and jitter is the single most significant issue that is holding up progress on HIPPI-6400-OPT.

## **9. Review HIPPI-6400-OPT Rev 0.7**

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Rev 0.7 contained the changes from the August meeting in Portsmouth, UK. All of the new and revised text was accepted as drafted, with exceptions listed below.

- 1) Clause 6 on OFC should be deleted.
- 2) Table entries for eye opening can be deleted when the timing/jitter text is merged into HIPPI-6400-OPT.
- 3) Some entries (e.g. minimum launch power) need to be added for the 1300 nm optics. Chris Keller accepted an action item to provide an updated table.
- 4) Table A.1 needs 3 variants (850 nm MM, 1300nm SM and MM)
- 5) There were some minor text changes in A.2, B.1, and B.2.1

## **10. Call for patents**

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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](mailto:amarasco@ansi.org). A patent policy description is at [www.ansi.org/proctbl.html](http://www.ansi.org/proctbl.html), section 1.2.11.

No new patent claims were made at this meeting.

## **11. Planning for future work**

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Nothing new, continue as we have been.

## **12. Future meeting schedule**

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The HIPPI Optical group will continue to meet only during plenary weeks for the foreseeable future.

The next meeting will be on Tuesday, December 15, from 6 PM to 9 PM. The location is the Doubletree Hotel at Randolph Park, Tucson, AZ. The cutoff date for group reservations at the \$110 rate is November 12. See the meeting notice on the HIPPI Standards Activities web page for details.

The agenda will be essentially the same as the agenda for this meeting.

**14. Review action items**

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1. Greg Chesson, Steve Joiner, Mark Donhowe, and Dan Brown to resolve the jitter budget and specification line items. SGI has the ball to review the provided text (on the web site) for jitter and skew. Input from SGI is needed ASAP so that the timing budget questions can be resolved.
2. Dan Brown to address the open issues concerning the eye mask in 7.1. (may be overcome by events when action 1 is completed)
3. Steve Joiner to run the ATM model noise power penalty model with connection loss numbers of 0.75 dB to 1.25 dB.
4. Don Tolmie to update HIPPI-6400-OPT Rev 0.7 with the changes agreed to at the October meeting.

5. Arun Agarwal to investigate jitter testing with the SuMAC chip. Discuss with Greg Chesson.
6. Dan Brown and others to continue discussions about Siemen's "MT connector problem presentation" at a future meeting.
7. Chris Keller to provide an updated single mode chart along with a note stating that 1300 nm SM and MM implementations are not identical and don't interoperate.

**13. Adjournment**

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The meeting adjourned at 7:30PM.

**Attendance**

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Ronald Bossard	3M	512-984-3782	rgbossard@mmm.com
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