

# IEEE 1394.B "COPPERHEADS" COPPER INTERFACE WORKING GROUP MEETING

JANUARY 6, 1997

Houston, TX

MAX BASSLER, CHAIRMAN  
BILL NORTHEY, SECRETARY

## Agenda

- Introductions
  - Max indicated a desire for more systems people to attend the Copperheads meetings.
  - Copperheads reflector is established: copperheads@zayante.com
- Review/approval of last meetings minutes
  - Notes distributed by Max Bassler
  - Bill Northey - motion to accept minutes, Dave Bruncker seconded. Voted and unanimously approved.
- Review of scope
  - Max Bassler presented scope for the working group
  - Jim Nave indicated that there might be a need for a connector present pin requirement vs. cable/socket detect pins for cable ID. Scope to be amended to indicate Cable /socket detect pins for cable speed/presence identification must be investigated"
  - John Fuller indicated that if current cable designs work at s1600, there might not be a need for detect pins. However he feels that the consensus is that the existing design will probably not work at s1600
  - Connector keying may be requested by Upstarts group, per Jim Nave
    1. Beta Mode PHY (non 1394-1995) -- cant accept 1394-1995 I/O, 6 or 4 ckt
    2. Bi-Lingual mode (1394.a, 1394.b) -- ??
    3. 1394-1995 mode -- 6 circuit/4 circuit I/O
      - PHY - IDENTIFY connector type, an "informative Chart" would be helpful.
      - 4 votes for, 0 against to take this issue on our scope. - Issue to be taken to larger group.
  - Scope voted on with amendments. 24 votes to accept, 0 against.
- Requirements
- New Items
  - Informational chart, PHY (type) - connectors (Chair / Secretary)
  - Open item - need for EMI/RFI test procedures to be proposed and/or written - Chuck Brill

- Al Kelley and Bob Gannon to collaborate on test methodology/terminology for cable testing.

Preferences for off cycle meetings

West coast - 4

South central - 0

Mid west - 2

East coast - 8 (AMP volunteers for at least one meeting in Harrisburg or Cupertino)

- Presentations
  - Al Kelley (Tensolite) - Cable enhancement using simultaneously extruded pair of signal conductors with fully expanded PTFE dielectric. S400, S800, S1600, S3200. Attenuation graph presented also. Within pair skew was indicated to be around 4ps. (Al to E-mail his presentation to Secretary.)
  - Bill Northey proposed changes to 1394-95 in the area of the contact profile/ geometry. Proposes that the handout be reviewed for discussion at the next meeting.

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