



Proposed Edits to IEEE 1394-1995 for Electrical Isolation Removal



Motivation

- ◆ **We have agreed to remove the isolation requirement from the spec.**
- ◆ **Discussing electrical isolation in the 1394 specification confuses the industry, is out of date and attempts to dictate solutions to common electrical problems**
- ◆ **A strong message encouraging silicon integration of PHY s and LINK s is needed**
- ◆ **Without isolation requirements we can change Annex J to remove AC coupling modes of interconnect between PHY s and LINK s -- a possible source of design problems for S400 PHY s and a very difficult interconnect for P1394B PHY-LINK connections**
- ◆ **We need a detailed proposal of what should remain and what should be deleted from the spec.**



Edit List

- ◆ **Delete section 4.2.1, p. 55, Warning , in particular item (a)**
- ◆ **Delete section 4.2.1.4.8, p. 75, Shield ac coupling**
- ◆ **Section 4.22.7, p. 81, Power and ground needs considerable re-writing if we re going to adopt more sophisticated power distribution rules**
- ◆ **Remove all of Annex A, p.243**
- ◆ **Delete J.6-7, p. 347, remove need for digital differentiator I/O modes of signaling between PHY s and LINK s**