

SPI-2 - LVDS Meetings

Meetings

Oct 13 Denver SPI-2/LVDS

Oct 16 Milpitas Marketing

Nov 6 Palm Springs

SPI-2 LVDS Specifications

- Oct 13 Meeting
 - Adjustment of the drive and thresholds because of the 1/2 current issues of a multipoint bus that was missed in the Bedford, NH Meeting.
 - Drive current 4.4 to 6 mA
 - Receiver threshold 70 mV
 - Terminator bias reduced 100-130 mV
 - Symbios Logic Presentation, Hybrid does not work, crosstalk data shows this clearly.
 - Bill Ham's Testing
 - 100 Megatransfer good at 27 Meters point to point.
 - 200 Megatransfer the distance will have to be reduced 15 meters?

Oct 16 SPI-2 Marketing Meeting

- Marketing committee will be formed.
 - Companies that will be key members: IBM, Digital, Adaptec, Symbios, Qlogic, Quantum, Seagate, Unitrode, Dallas Semi
- Function
 - Functions
 - Dues
 - Meetings
 - FAX-Back / BBS / Webpage
 - Email Reflector / 800#
 - Trade Shows
 - Publications
 - Training
 - Press Releases

SCSI Parallel Marketing

- Mission Statement

- Promote increased usage of parallel SCSI
- Educate customers on when to use SCSI
- Reduce confusion concerning SCSI
- Provide focal point for press, industry, and customer communications regarding SCSI
- Advance and promote product interoperability
- Advance and promote storage as a focal point for system differentiation
- Shape the evolution of SCSI technology
- Evangelize SCSI as a flexible and powerful connectivity solution for many applications
- Orchestrate a convergence on a common interconnect

Nov 6 SPI-2 Meeting

- Limiting pin count Hybrid discussion came up again, hybrid does not work, this will push some of the controllers to 244 BGA packages. **Crosstalk, Common Mode**
- Definition of the test circuits
 - Terminators, Drivers and Device Capacitance
- Margin issues
 - Suggestion to increase the minimum current to 5 mA
 - Reduce the termination impedance to better match the loaded cable, which will guarantee incident wave switching.
 - Reduction of Common mode from +/- 1 Volt to +/- 500 mV
 - Step getting off the bus, Negate, 1/2 Current, off

Future Meetings

- SPI-2 LVDS
 - Dec 15th Holiday Inn Milpitas
 - Jan 8th Dallas
 - Feb 5th?
- SCSI Marketing
 - Dec 14th Holiday Inn Milpitas

LVDS - 6 mA Power

- Transceiver Power Calculations
- Maximum number of drivers active 23, on 27 line interface.
- 4 Receivers Active
- Driver Control current $1 \text{ mA} * 3.6 \text{ mW} * 23 \text{ lines} = 97.2 \text{ mW}$
- Driver power $6 \text{ mA} * (3.6-0.36) \text{ Volts}, 19.44 \text{ mW/Line} * 23 \text{ Lines} = 447.1 \text{ mW}$
- Receiver Power $2.5 \text{ mA} * 3.6 \text{ Volts}, 9 \text{ mW/Line} * 4 \text{ Lines} = 36 \text{ mW}$
- Total Transceiver power = 580 mW

9-Nov-95 Correction