SCSITA T10 Plenary Report

STA Technical Committee STA General





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STA Technical Committee

- STA Technical meeting March 7 Dallas, TX
 - Jan Minutes 01s002r0 on <u>www.scsita.org/STATech</u>
 - Parallel SCSI roadmap to 2012 01s001r0, the roadmap will be developed over several meetings, the target is to present the roadmap in the July meeting. The requirements for the roadmap generations were defined. Mar 7 meeting there were Presentations on encoding and Hyper SCSI schemes.
 - Ultra640 SCSI, presentation on encoding going to 1 gigabyte per second for a 3 year cycle and scrap Ultra640
 - The next meeting will be in Nashua, NH May 2, 2001.
 - Server and PC ease of use documents, the final review was in January - Rev 1.0 of both documents 00s018r4 and 00s019r4 will be forwarded to the STA Board and STA
 General for approval to publish on the STA web site.



Future SCSI Requirements

- 10 year roadmap plan that keeps up with at least Moore's law
- 12 meters with 16 devices or 25 meters point to point.
- Legacy support of only LVD SCSI devices
 - Single ended and HVD SCSI devices must be on a separate channel or attached through an expander.



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Disk Drive Transfer Rates and naming convention



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Drive Waveform



Nominal Voltages Shown Ultra800

Shown as 36

Coding; 36 numbers or 5 bits with 5 codes left for ECC, 800 MB/s

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Hyper1.7 + SCSI

	40 MHZ fundamental, 25 ns period										:	
Bias+500mV-	1000		0				12	5 ns			-	
Bias+375mV_	1098	32	00	200		<u> </u>		.0 113				
Bias+250mV	732	24	60	150								
Bias+125mV	366	16	40	100	250							
Bias	CLK	1	2	4	8	2.5 ns 2.5 ns 2.5 ns 2.5 ns 2.5 ns						LK
	2.5 ns 2.5 ns 2.5 ns 2.5 ns 2.5 ns 2.5 ns					^B CLK	1	2	4	8		
Bias-125mV											<u>:</u>	
Bias-250mV						366	16	40	100	250	:	
Diac 275m\/						732	24	60	150			
	12.5 ns					1098	32	80	200			
Bias-500mV _	· · · · · · · · · · · · · · · · · · ·					· / /	<u> </u>	<u>: </u>	<u>. </u>	<u>. </u>	<u>. </u>	

Cell combinations - effectively 11 bits encoded 1.7 gigabytes/sec.

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STA General

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- Annual meeting with the board election 9-Mar-2001
- Revise website went on line in December Marketing to web based, last year over 100,000 hits
- Product data base allows non STA member product listings for a fee
- Several Articles published, RTC, CTR, EDN, IEEE
- 20th anniversary May 22nd Fairmont Hotel with IDC
- The last STA General was in Orlando, FL 19-Jan-2001
 - Ultra320 SCSI trademark agreement approved
 - Booth at Applied Computing coming up May 14-17

Next STA General meeting - 4-May-2001 – Nashua, NH



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