Introduction:

The Serial ATA interface represents one of the greatest shifts in storage technology to hit our industry over the past decade. Millions of Serial ATA ports and disk drives have shipped into the market, replacing the aging Parallel ATA interface in the desktop. Advancements to the interface encompass greater speed, longer more efficient cabling and advanced features for integration into servers and networked storage environments.

The LiTek LT-SATA1.0 is a total solution for SATA cable and cable assembly high-speed test for both TDR and VNA.It is a high-bandwidth ,good matching,low skew, low crosstalk and reliable test solution.



Figure-2:SATA-AR01AM (with DUT)



Figure-3:SATA-RW01AM (with DUT)



Figure-4:SATA-CK01AM

Features & Benefites:

- *Dour raw capie and capie assembly solution
- *Include wide-bandwith Balun for frequency domain test
- *Combine with test software
- *Convenient report format (Excel)

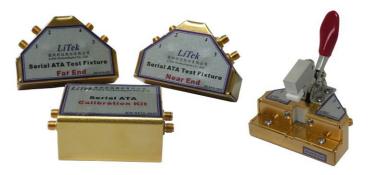


Figure 1 Standard SATA test fixture set

Standard Sata test fixture set:

Item	Name	Q'ty	Remark
1	SATA-AR01AM	2	SATA Assembly Test Fixture
2	SATA-RW01AM	2	SATA Raw Cable Test Fixture
3	SATA-CK01AM	1	SATA Cal Kit Test Fixture

Measurement Parameters:

Specification: High Speed Serialized AT Attachment

Differential Impedance	TDR	TDR mode
Common mode Impedance	TDR	TDR mode
Cable pair matching	TDR	TDR mode
Mated connector Impedance	TDR	TDR mode
Intra-pair skew	TDR	TDTmode
Risetime	TDR	TDTmode
Near-end Crosstalk	VNA	S21
Insertion Loss	VNA	S21

Software Benefites:

- *Log in/out management
- *Customer data edit flexible
- *Project management
- *Auto-calibration save
- *Calibration database
- *Automatic TDR parameters test
- *Instant test result preview
- *Fully reporting
- *Convenient report format(Excel)
- *Both TDR and VNA

Software Introduction:



Figure-5: Software setup and execusion



Figure-6:Test data edit

Figure-7: Project management

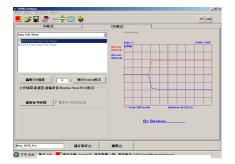


Figure-8: Calibration-1

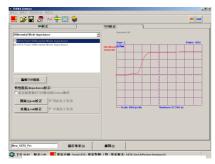


Figure-9: Calibration-2

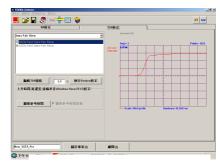


Figure-10: Calibration-3

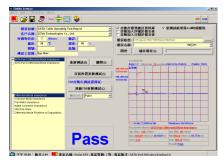


Figure-11: Differential Impedance



Figure-12: Common mode



Figure-13: Cable par matching



Figure-14: Connector Impedance



Figure-15:Skew test

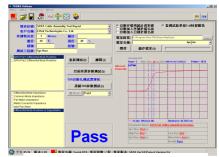


Figure-16: Risetime test

Contact LiTek:

Taiwan: 4F-3,No.18,Huannan Rd., Pingzhen City,Taoyuan County 32448,Taiwan Tel:+886-3-4951851 Fax:+886-3-4951841 李文福 經理 Leo Lee leo@litektw.com Cell Phone:+886-922330325

China: 901R Shencai Building Fuyong Boulevard Fuyong Town Baoan District Shenzhen Guangdong 洪瑋駿 經理 Thomas Hung thomas630504@yahoo.com.tw Cell Phone:+86-13823201991

