Introduction:



Fig1:SW2012A Coaxial Switch Box

LiTek's SW2012A Test System Consist of two parts, Coaxial Switch Box and RF Test Fixtures. Using the Coaxial Switch Box the customers can enhance the performance and reduce the complex of the testing.

The SW2012A Switch Box provides 4 X 1 to 2 switches, mostly working with Network Analyzer and used to expand from 4 Ports to 8 Ports. In other words, it can be used to test 2 pairs of differential signals. Fixture set will be optionally selected based on DUT type.



Fig2:TpNA Express Software

LiTek's TpNA_Express software is well designed to control SW2012A and Network Analyzer. It can be used to build project, recall project, do calibration and output reports.

NA校正	TDR校正	校正資料檔案	
DisplayPort H.B.R Cable Impe	dance	3	
DisplayPort H.B.R Cable Im	nedance I 0		
DisplayPort H.B.R Cable Im			
DisplayPort H.B.R Cable Im			
DisplayPort H.B.R Cable Im			
DisplayPort H.B.R Cable Im	pedance AUX		
在進行TDR參數校正前。語先進行	件一种正规定(日素课行一次)		
HEIDIG STOL	nath Ch - Y Filters formation		
擬 取所有TD	R参数之Filter function		
 類取所有TD	R參數之Filter function		
提取所有TD	R参数之 Filter function		
	R参數之 Filter function		
特性阻抗栓正: 尚未完成:			
	R参数之Filter function		
特性阻抗校正: 尚未完成: 「 執行IDR Deskew動作	□ 一次執行所有間路或負載校正		
特性阻抗校正: 尚未完成: 「 執行IDR Deskew動作			
教性组狀检正:尚未完成 「執行1DR Deskew御作 【関路(Qpen)校正 □	□ 一次執行所有間路或負載校正		
特性組防栓正: 尚未完成 「「執行TDR Deskew動作 「関路(Open)校正 「外載(Load)校正 「	厂一次執行所有關防疫負載使定 當該用以調節校定		
特性組防栓正: 尚未完成 「「執行TDR Deskew動作 「関路(Open)校正 「外載(Load)校正 「	「一 大執行所有關關或負載使正 「生產用於國際收定		

Fig3: TpNA Express calibration figure

Features and Specification:

- 1. Controlled by USB interface.
- 2. Using TpNA Express GUI easy to test.
- 3. Isolation:80dB,Insertion Loss 0.2dB
- 4. Frequency Range: DC~18 GHz.
- 5. Switch times: 1 million times.
- 6. Support kinds of products by changing the Test Fixture Set.
- 7. Output Excel and PDF test report.

Parameters:

•S-parameter:

- 1.All S-Parameters
- 2. Attenuation(Insertion Loss/IL)
- 3.Impedance
- 4.Delay
- 5.Return loss
- 6. Delay Skew
- 7.Structure Return Loss(SRL)
- Time-Domain Parameter:
- 1. Characteristic Impedance
- 2. Signal Rise-time/Degradation
- 3. Time Delay Skew
- •Eye Diagram



Application:

- USB3.0 Cable Assembly SSTX/SSRX Pairs S-Parameter and Eye Diagram measurements.
- SATA Cable Assembly TX/RX Pairs S-Parameters and Eye Diagram measurement.
- SFP/SFP+ TX/RX Pairs S-Parameters and Eye Diagram measurements.
- Other cables with 2 Differential Pairs.

What the customers should prepare:

- PC with Microsoft Windows XP (Service Pack 3 should be updated) or above.
- Monitor, Keyboard and mouse.

Warranty and Support:

• SW2012A mainframe would be 1 year warranty in normal use condition.

Others:

For others or Customized Fixtures, you can contact LiTek company. We can base on your request to design the suitable Test Fixture for you.

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Fig4: TpNA Express testing figure

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