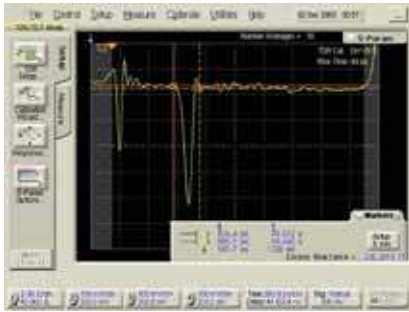


The N1080A TPA's have low loss, very good impedance and low intra-pair and inter-pair skew. These TPA's also have a small form factor and conveniently connect to the rear of DVD players, flat panel displays and other products that have the HDMI connector in tight spaces.



86100C/54754A TDR measurement

Cable Testing

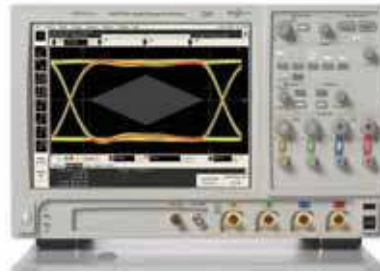
The HDMI standard defines many performance characteristics for cable assemblies. When these TPA's are paired with the Keysight 86100C, 54754A TDR modules and Option 202 advanced impedance and S-parameter software, the user quickly and accurately measures all required parameters on cables including impedance, skew, attenuation, and crosstalk.

The user quickly sees the interaction between time and frequency domain, thus allowing quick troubleshooting and design improvements.

Source Testing

The HDMI specification covers the source tests such as voltage, skew, jitter, data eye, rise times and many other parameters.

When these TPA's are paired with Keysight's DSO90000 Infiniium oscilloscopes and the N5399A HDMI Compliance Test Software, the user will have uncompromized accuracy and unrivaled simplicity in characterizing their source design. The TPA's excellent performance enables the user to clearly see nuances in the transmitted pattern and determine how to improve the performance of the source and channel.



Infiniium DSO90000 oscilloscope

The N5399A HDMI Application automates the measurement of several parameters and provides the user a concise test report of how their devices are performing. This is particularly helpful before submitting the devices to the Authorized Testing Centers (ATC) for final approval.

Low Frequency Testing

The HDMI standard defines several low frequency tests such as DDC/CEC line capacitance, Hot Plug Detect, HPD output resistance, etc. The N1080A Low Frequency (LF) board, used in conjunction with one of the N1080A TPA's, correctly configures the DUT for these low frequency measurements.

Sink Testing

Section 8 of the HDMI standard covers several tests for sinks such as swing tolerance, skew and jitter tolerance. These tests demand multiple channels and flexible capability for signal configuration. The Keysight ParBERT is well suited to these tasks providing a wide range of configurations and signal types. The ParBERT delivers these signals through the N1080A TPA's, enabling the user to quickly see the effect of different signal types on their sink.

N1080A Configuration

The N1080A comes in three different configurations:

Option H01 is a TPA with a plug and is typically used, in conjunction with the low frequency board, for testing Sources and Sinks. Note that it does not include a probing interconnect solution.

Option H02 is a TPA with a receptacle, typically used in pairs for testing cables. Note: For best accuracy a N1080A-H01 TPA plug and a N1024B TDR calibration kit are required as well.

Option H03 is the low frequency board used for various tests on source modules.*

* The N1080A-H03 has a socket for an EDID memory but not the actual chip itself.



81250 modular BERT platform

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