COMPACT MULTIMEDIA TEST SYSTEM (MTS)

Product Overview

- The goal of Seica's Compact Multimedia Test System (MTS) is to offer a flexible and customizable solution, ready and able to meet the challenges posed by the latest technologies on the market. Based on 30 years of experience in test, Seica decided to define a platform dedicated to the functional testing of multimedia products. Starting from the most common communication buses (RS232, USB, Ethernet) including those specific to the automotive industry (CAN, LIN, Most, Flexray), through to video and audio validation, all the way up to the most complex RF combinational test, the Compact MTS is designed for the integration of all of the hardware and software resources necessary to satisfy any requirement.

Characteristics

ATE resources	• Like all Seica systems, the Compact MTS is based on the Seica VIP platform, a fully integrated combination of advanced technology and simplicity of use, enabling high performance in-circuit/functional test performance. The sophisticated integrated measurement system (ACL module), based on DSP technology, is able to execute measurements and conditions, as well as manage signals in a fully automatic mode.
Video analysis	• The list of the video technologies used in the latest consumer electronic devices is constantly increasing: Blu-ray Disc, HD DVD, 1080p, High-Definition Multimedia Interface (HDMI), Digital Visual Interface (DVI), S-Video, LVDS and CVBS standard, just to name a few. The Compact MTS integrates the latest solutions to accurately capture the analog signal with high-resolution digitizers, while capturing or generating digital video interfaces. The flexibility of the system allows manufacturers to keep up with new video standards while meeting aggressive time-to-market and price targets.
Audio Signal validation	• Closely related to video test, audio signal analysis can be performed on the Compact MTS using its software to manage both the integrated Seica instrumentation as well as any additional external instruments. It is possible to generate and measure analog signals like THD levels, signal-to-noise ratio, etc. or to decode digital audio signals such as S/PDIF or I2S Parallel acquisition of different audio channels can also be provided to increase test throughput.
Communication buses	• As communications speeds have increased and electronics have expanded into more and more safety-critical areas, there has been a shift in the technology. The flexible hardware and software architecture of the Compact MTS provide the most advanced integrated solutions: RS232 serial bus, automotive communications buses such as Lin, CAN (up to 500Kbps), LIN, Electrical and Optical MOST and FlexRay (operating at 10Mbps) reaching the high throughput standards over Ethernet.