PXI-based modules handle HDTV test

D Sargent  - August 25, 2010

Alfamation has released two PXI-based modules for high-speed video test applications: the FlexMedia VA-01 HD (high-definition) LVDS video analyzer and the FlexMedia VG-01 HD video generator. The modules are based on the FlexRIO products from National Instruments, which provide customizable I/O for NI LabView FPGA.

"The FlexMedia V-Series video-test modules can perform tests at rates above 20 Gbps on 3-D and high-definition TVs and computer monitor mainboards, allowing electronics manufacturers to drastically reduce their test time while continuing to deliver a high-quality end product," said Mauro Arigossi, president of Alfamation, in a prepared statement.

The VA-01 video analyzer features high-speed LVDS acquisition for full HD-video pixel-error analysis. It can test up to eight 1080p HDTVs simultaneously with a single-source test. The analyzer is based on NI FlexRIO FPGA modules that feature PXI and PXI Express devices with Xilinx Virtex-5 FPGAs, onboard DRAM, NI ASICs, and an interface to NI FlexRIO adapter modules that provide I/O to the FPGA.

The VG-01 video generator offers high-quality video generation over composite components and digital interfaces. It features up to 1080p at 30 Hz with 48-bit color or 1080p at 60Hz with 36-bit color. Features include 3-D, HEC, and ARC support; CEC, DDC, and content type bits transmission; encoded, unencoded, and PCM audio support; and 30-bit RGB color depth.