Marvin Test Solutions Expands User-Programmable PXIe FPGA Product Line

GX3800e Leverages the Industry Standard VITA 57 FMC Interface

Irvine, Calif. – December 17, 2018 - Marvin Test Solutions, Inc., a trusted provider of globally-deployed innovative test solutions for military, aerospace, and manufacturing organizations announced the release of the new GX3800e High Performance PXI Express FPGA module.

The GX3800e employs the Altera Cyclone V FPGA, which supports data rates up to 3.125 Gb/s and features over 300,000 logic elements and 12.2 Kb of user memory. The GX3800e uses a daughter card for the I/O physical layer and these cards can be commercial off the shelf VITA 57 FMC (FPGA Mezzanine Card) modules, MTS' line of daughter cards, or user designed cards. This innovative approach facilitates the integration of many applications and interfaces including A to D, D to A, Camera Link, FPDP, and high speed serial using a single PXIe slot. The design of the FPGA is done using Altera's Quartus or the license-free Quartus Prime Lite tool set.

The user FPGA's interface to the PXIe bus is partitioned via an internal address and data bus which is accessed via predefined registers and supported by the module's software driver and an interactive UI. The result is a simplified design / integration process since both the PXIe bus interface and associated software driver are known, tested entities. And as an added benefit, the compiled FPGA design can be loaded into on-board flash memory via this same interface, providing users with an easy way to incrementally design / test / modify their FPGA code.

"The broad adoption of user programmable FPGAs for test and measurement applications has allowed test engineers to create custom instrumentation and interfaces for complex, mission critical applications from the flightline to the factory," said Major General Stephen T. Sargeant, USAF (Ret.), CEO of Marvin Test Solutions. "With the addition of the GX3800e which leverages COTS FMC modules and industry standard IP cores and programming tools, our customers can realize a streamlined design process, long-term supportability, and the flexibility to adapt to future test needs."

To learn more about Marvin Test Solutions' suite of PXI/PXIe user-programmable FPGA modules that offer users the flexibility to create high performance, customized digital and mixed signal instrumentation for specific applications without requiring the use of external interface cards, visit http://www.marvintest.com/Category.aspx?category=FPGA.

Information about the VITA 57 FPGA Mezzanine Card (FMC) standard is available on the VITA website.

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About Marvin Test Solutions

Marvin Test Solutions, a vertically integrated aerospace test and measurement company, has delivered innovative, feature-rich test solutions for military, aerospace, and semiconductor organizations since 1988. As a member of The Marvin Group, an award-winning company with a storied 55-year history, Marvin Test Solutions has test equipment deployed in use around the world.