

Marvin Test Solutions Expands PXI FPGA Product Line

New GX3756 Series Flexible Digital I/O Instrument

Irvine, Calif. – August 25, 2020 - 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 [GX3756 Series](#) Digital I/O Instrument.

The FPGA-based GX3756 delivers 56 channels of TTL logic compatible I/O, segmented into fourteen, four channel groups, in a high-performance 3U PXI hybrid slot compatible instrument. Each I/O channel can be accessed utilizing read / write register commands and each group of four TTL outputs can be either enabled or tri-stated. The GX3756 is comprised of the [GX3700](#) FPGA carrier card and an I/O daughter card - the FPGA may be modified by customers to create customer-specific functions.

Four of the 56 TTL outputs can be configured to deliver 30 bit, 1 kHz serial data streams, while connector/cable identification is supported with three connector ID bits, further enhancing the utility of this card. TTL input overvoltage protection ensures safe, reliable operation, and output state monitoring with the readback function provides the ability to verify programmed operation.

“The GX3756 delivers a unique combination of TTL I/O, data streaming and connector/cable identification in a 3U PXI hybrid slot compatible instrument” said Jon Semancik, Director of Marketing for Marvin Test Solutions. “Plus the ruggedized, extended temperature version is ideal for deploying test systems in extreme, harsh environments.”

The GX3756 Series is supplied with GxFPGA, a software package that includes a virtual instrument panel, and a Windows® 32/64-bit DLL driver and documentation. Interface files are provided to support access to programming tools and languages such as [ATEasy®](#), LabVIEW™, C/C++, Microsoft C# and Visual Basic® .Net. A Linux driver is also provided with the GtLinux software package.

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 <https://www.marvintest.com/Category/FPGA>.

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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.