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Growing FMC (FPGA Mezzanine Card) Ecosystem Verified

***FMC Check* tools test multi-vendor FMC daughter card and carrier card interoperability, ecosystem continues growing with suppliers and products.**

SCOTTSDALE, AZ, August 29, 2012 — VITA, the trade association for open standard computing architectures serving critical embedded systems industries and the FMC Marketing Alliance announces the successful completion of FMC PlugFest 2012. The PlugFest was the first utilization of **FMC Check** which consists of the VITA 57.2 metadata specification combined with Cloud-based builder and checker tools.

FMC modules allow designers to quickly expand the application reach of a general purpose FPGA carrier card. These daughter cards are very often accompanied with a reference design that facilitate fast design verification and reuse, increasing productivity.

The VITA 57.2 metadata specification defines, in a structured form, the key design parameters for FMC modules and FMC carrier cards per the ANSI/VITA 57.1 FPGA Mezzanine Card base specification. The **FMC Check** tools enabled the sponsors to facilitate the testing process used during the PlugFest. The event was a chance for the suppliers of FMC modules and FMC carrier cards to work together to test the interoperability of products. System developers and integrators using FMC technology will be able to carry out pre-qualification of the wide range of products available within the globally expanding FMC ecosystem. The following companies sponsored FMC PlugFest 2012 and participated in the testing.

4DSP LLC	Faster Technology
Alpha Data Parallel Systems Ltd	National Instruments
Altera Corporation	Tokyo Electron Device Ltd
Analog Devices, Incorporated	Xilinx
Avnet Electronics Marketing	

"We were very excited to hold this PlugFest event as it was the first chance for us to test compatibility per the *FMC Check* tools that the working group developed," said Malachy Devlin, Chair of the VITA 57 FMC working group and FMC Marketing Alliance. "The PlugFest gave us a chance to do real-world physical testing and validation of *FMC Check* on an excellent cross-section of typical platforms covering networking, video, signal processing, and optical communications. This has given us valuable feedback that will help us make the tools even more effective for system developers and integrators."

The sponsors provided 23 unique FMC modules that were used to test a range of application scenarios on 13 different FPGA carrier cards. The FMC PlugFest gave the participants an excellent opportunity to exchange ideas and to learn more about how the tools can facilitate selection of FMCs and carriers.

Over 100 FMC modules are currently available from more than 30 suppliers, with more being added each month. These products cover applications that are popular FPGA targets in industries of all types.

About the FMC Marketing Alliance

The purpose of the FMC Marketing Alliance is to establish an ecosystem of interested parties that promotes and creates name recognition, as well as grow adoption of the FMC specifications and technology. The alliance is responsible for educating, training, and promoting the capabilities of the FMC family of specifications and informing the broader community.

Companies that develop FMC products are encouraged to contact VITA to join the FMC Marketing Alliance. For more information, visit the FMC Marketing Alliance website at www.vita.com/fmc.

About VITA

Founded in 1984, VITA is an incorporated, non-profit organization of suppliers and users who share a common market interest in critical embedded systems. VITA champions open system architectures. Its activities are international in scope, technical, promotional, and user-centric. VITA aims to increase total market size for its members, expand market exposure for suppliers, and deliver timely technical information. VITA has ANSI and IEC accreditation to develop standards (VME, VXS, VPX, OpenVPX, VPX REDI, XMC, FMC, etc.) for embedded systems used in a myriad of critical applications and harsh environments. For more information, visit www.vita.com.

Source: VITA

4DSP LLC

"The FMC PlugFest represented an opportunity to showcase FMC products from a vibrant community of technology enablers. This growing ecosystem is set to serve the needs of embedded systems for years to come by offering both flexibility and high performance in a small footprint. 4DSP is committed to roll out more cutting edge FMC based products and provide our customers with cost effective solutions for the most demanding applications."

Peter Kortekaas, head of Engineering, 4DSP LLC

Alpha Data Parallel Systems Ltd

"Alpha Data is always looking to provide our customers with the newest, fastest, most powerful reconfigurable computing solutions available. FMC is the latest and greatest way to support this objective. We have never before seen such interoperability and versatility between reconfigurable computing OEMs. Combined with our unparalleled support, this will allow our customers to develop cutting edge solutions faster than ever before."

Kevin Roth, Lead Design Engineer, Alpha Data Inc."

Altera Corporation

"Altera is excited to join the VITA57 FMC Marketing Alliance this year and is committed to help drive interoperability between carrier cards and FMC modules from all vendors as well as helping to define future enhancements and design guidelines. Our first two FMC carrier cards, the Arria V GX FPGA Development Kit and the Stratix V Advanced System Platform passed 100% of all electrical testing with three modules from Faster Technology, the FM-S14, FM-S18, and FM-S28 doing 6G and 10G optical networking with SFP+ and QSFP+ modules. Altera looks forward to broadening our FMC testing with more module vendors, both using the VITA57.2 FMC Check tool as well as full electrical testing."

Charles Pryor, Manager High Speed Board Group, Altera Corporation

Analog Devices, Incorporated

"Analog Devices supports open standards-based systems such as FMC. FMC technology provides simplified connectivity between Analog Devices' industry-leading data converters and FMC-enabled FPGA development platforms. By providing FMC cards, the necessary HDL and software, we provide designers a seamless way to connect to FPGA platforms allowing for easier integration, rapid prototyping and shortened development times. FMC connectivity enables easy prototyping and demonstration of Analog Devices' analog and mixed signal components over a wide variety of FPGA types. Customers appreciate the interface

and can immediately move from evaluation to prototyping and software development without waiting for purpose built hardware prototypes."

Dave Babicz, director, Global Alliances, Analog Devices

Avnet Electronics Marketing

"As a long-standing supporter of the VITA 57.1 FMC specification, Avnet Electronics Marketing continues to introduce both FMC-compliant modules and carrier cards. At the recent FMC PlugFest, we successfully completed testing on our newest carrier cards: the Kintex-7 Mini Module Plus System and the ZedBoard. We look forward to the continued enhancements that the VITA 57.2 additions bring to the design community."

Jim Beneke, VP Global Technical Marketing, Avnet Electronics Marketing

Faster Technology

"The FMC PlugFest was a great opportunity for Faster Technology to check out our vast array of FMCs with FMC carrier cards from other suppliers. The new FMC Check tools enabled us to quickly access compatibility between our modules and the carriers. We were especially excited when the FM-S28 Dual QSFP/QSFP+ transceiver FMC was selected as a best in class FMC."

David Lautzenheiser, Business Development, Faster Technology

Tokyo Electron Device.

"As one of the providers of development kits, FMC based products and design services to Xilinx customers under the "Inrevium" brand name, Tokyo Electron Device was pleased to participated in testing at FMC PlugFest 2012 and strongly believes that FMC technology which is expanding globally will contribute to improve the development process in a wide variety of industries."

Yasuo Hatsumi, Vice President, Tokyo Electron Device.

Xilinx

"Xilinx has been behind the FMC standard since its inception as part of our commitment to providing customers simpler, smarter, and more strategically viable design solutions for a wide variety of industries and applications. Combining the versatility of the FMC standard and FPGAs creates an infinite number of market and application opportunities for the vendors who participated in FMC PlugFest 2012 and our customers."

Raj Seelam, Director of Targeted Design Platforms, Xilinx