PRESS RELEASE

X-ES Announces 4th Generation Intel® Core™ i7 Processor-based VPX, VME, cPCI, XMC, and COM Express SBCs

Middleton, WI – June 4, 2013

Extreme Engineering Solutions, Inc. (X-ES) has introduced its 3U VPX, 6U VPX, XMC, 3U CompactPCI, 6U CompactPCI, 6U VME, and COM Express Single Board Computers (SBCs) based on the 4th generation Intel® Core™ i7-4700EQ processor (formerly codenamed "Haswell"). Rob Scidmore, CEO of X-ES, emphasizes X-ES's commitment to being first to market with a wide selection of 4th generation Intel Core i7 processor-based products, "We are proud to continue our leadership in the industry by providing a full line-up of embedded form factors based on Intel's latest processor architecture."

X-ES has utilized its extensive experience in designing and manufacturing high-performance Intel SBCs for commercial, industrial, and rugged platforms to produce 4th generation Intel Core i7 processor-based products for high reliability embedded applications. "By integrating 4th generation Intel® Core™ i7 processors into some of the smallest embedded form factors and the most demanding of environments, X-ES is highlighting the performance strengths of the new microarchitecture," said Sam Cravatta, Product Line Manager, Intel® Intelligent Systems Group. Ben Klam, VP of Engineering at X-ES adds, "We are utilizing our unique understanding of Intel architecture to provide highly reliable 4th generation Intel Core i7 processor-based products that maximize I/O capabilities, operate at extreme low temperatures, and provide industry-leading cooling for unequaled high-temperature performance."

X-ES's line up of conduction and air-cooled products based on the 4th generation Intel Core i7 processor include the XCalibur4500 6U cPCI, the XCalibur4530 6U VME, and the XCalibur4540 6U VPX modules, which maximize memory capacity and I/O capabilities and add configurability with two PMC/XMC sites. X-ES provides the XPedite7570 3U VPX and the XPedite7530 3U cPCI modules, which are ideal for smaller aerospace and vehicle platforms that require maximum processing performance and I/O capabilities with the flexibility of PMC and XMC support. For applications with severe size, weight, and power (SWaP) challenges, such as Unmanned Aerial Vehicles (UAVs) and Unmanned Ground Vehicles (UGVs), X-ES also offers the small XPedite7501 XMC and XPedite7550 Rugged COM Express modules.

X-ES has recognized the significant maintenance and diagnostics advantages achieved through utilizing the remote configuration and management feature, Intel® Active Management Technology (Intel® AMT), within X-ES's previous generation Intel Core i7 processor-based products. As a result, X-ES is continuing to offer those advantages to its customers by including Intel® AMT 9.0 support for its 4th generation Intel Core i7 processor-based products. Additionally, improvements within the 4th Generation Intel Core i7 processor include increased raw processing performance per watt, hardware-based memory encryption with Intel® AES New Instructions (AES-NI), and increased floating-point and integer performance utilizing Intel® Advanced Vector Extensions 2.0 (AVX 2.0). The graphics processing unit (GPU) in the 4th generation Intel Core i7 processor has also been enhanced, adding additional execution units and up to a 24% increase in raw performance. The 4th generation Intel Core i7 processor also supports OpenCL 1.2, enabling it to perform as a general-purpose graphics processing unit (GPGPU).

Contact X-ES to find out more about how their SBCs, based on the 4th generation Intel Core i7 processor, can solve your processing and I/O needs.

Contact:
Jeff Porter, Director of Marketing and Product Development
jporter@xes-inc.com
+1-608-833-1155

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