



## PRESS RELEASE

### ***Freescale QorIQ T2080 and T1042-Based Modules from X-ES***

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Extreme Engineering Solutions, Inc. (X-ES) will introduce two new Freescale QorIQ T2080 and T1042-based modules at [Freescale Technology Forum \(FTF\) 2014](#), the [XPedite5970](#) and the [XPedite6101](#). The XPedite5970 is a 3U OpenVPX™ REDI module based on the T2080 processor, and XPedite6101 is a conduction-cooled XMC or PrPMC module based on the T2081, T1042, or T1022 processor. The XPedite6100, an air-cooled, front panel I/O, XMC/PrPMC module will soon be available from X-ES, as well.

The Freescale T2080 and T2081 processors provide a System-on-a-Chip (SoC) solution that emphasizes processing and I/O performance per watt in a space-efficient package. They offer eight virtual (four dual-threaded) e6500 cores and support an operating frequency of up to 1.8 GHz. Each e6500 core includes the Freescale Altivec technology-based SIMD engine, providing DSP-level floating-point performance and an extensive inventory of software libraries.

The T2081 processor provides the same performance and capability as the T2080 in an even smaller package, which is pin-compatible with the T1042 and T1022 processors. The T1042 processor provides a lower-power alternative with four e5500 cores running at up to 1.4 GHz. The T1022 provides the lowest-power option with two e5500 cores running at up to 1.4 GHz.

The OpenVPX REDI [XPedite5970](#) supports up to 8 GB of DDR3 SDRAM and provides a plethora of I/O options to the backplane, including 10 Gigabit Ethernet, Gen3 PCIe, and Gen2 SRIO. The XPedite5970 provides superior growth and expansion capabilities by including an XMC or PMC site with full 10 mm I/O envelope support while maintaining a 0.8 in. VPX slot pitch, providing the system integrator with a wide variety of COTS options for additional I/O, storage, or processing while minimizing total system SWaP-C.

The [XPedite6101](#) provides a compact, versatile, and cost-effective rugged computing solution. The XPedite6101 supports multiple processor configurations and up to 8 GB of DDR3 ECC SDRAM. It also supports a number of high-performance I/O options with a Gen2 PCI Express interface to P15, as well as dual Gigabit Ethernet, USB 2.0, and SATA 3.0 Gb/s interfaces to P16.

The XPedite5970 and XPedite6101 offer Wind River VxWorks, Linux, and Green Hills INTEGRITY Board Support Packages (BSPs).

The XPedite5970 and XPedite6101 offer versatile T2080 and T1042 processor options. If your application requires customization or a different form factor, X-ES has expert design and manufacturing capabilities to meet the most demanding needs. [Contact X-ES](#) to find out more about what we can do for you.

About X-ES — Extreme Engineering Solutions, Inc. (X-ES), a 100% U.S.A.-based company, designs and builds single board computers, I/O boards, power supplies, backplanes, chassis, and system-level solutions for embedded computing customers. X-ES offers cutting-edge performance and flexibility in design, plus an unparalleled level of customer support and service. For further information on X-ES products or services, please visit our website: [www.xes-inc.com](http://www.xes-inc.com) or call (608) 833-1155.

[XPedite5970 Datasheet](#)  
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[XPedite6101 Datasheet](#)  
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Contact:

Jeff Porter, Director of Marketing and Product Development  
+1-608-833-1155