



PRESS RELEASE

X-ES Announces Freescale™ QorIQ™ T4240 or T4160-Based 6U VPX Module

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Extreme Engineering Solutions, Inc. (X-ES) introduces the [XCalibur1840](#), a 6U OpenVPX module featuring the Freescale™ QorIQ™ T4240 or T4160 communications processor. Freescale's Power Architecture e6500-based T4240 and T4160 processors combine multiple 1.8 GHz dual-threaded cores, large caches, and high-performance networking capabilities with the next-generation AltiVec single-instruction multiple-data (SIMD) engine to provide high-performance processing for both control and data plane tasks from a single system on a chip (SoC). Freescale's significantly improved next-generation AltiVec engine delivers DSP-level floating-point performance with 172 GFLOPS of vector processing capability, more than seven times the performance of its previous generation, while maintaining compatibility with an already extensive inventory of AltiVec software libraries.

The [XCalibur1840](#) can be built to support either the T4240 or T4160 processor. When configured for the T4240, the [XCalibur1840](#) maximizes total processing performance with twelve dual-threaded physical cores or up to twenty-four virtual cores. The T4160 provides a lower-power solution with eight dual-threaded physical cores or up to sixteen virtual cores, ideal for platforms with more stringent Size Weight and Power (SWaP) restrictions.

The [XCalibur1840](#) provides a number of high-performance I/O interfaces, including sixteen lanes of Gen 2 PCI Express, four Gigabit Ethernet Interfaces, and front panel or backplane 10 Gigabit Ethernet ports. The versatile [XCalibur1840](#) supports two XMC or PMC modules for additional I/O and processing flexibility, and it includes up to 24 GB of DDR3 ECC SDRAM across three channels. The [XCalibur1840](#) is available in either conduction-cooled or air-cooled versions and supports 0.8" pitch or 1.0" pitch 2 Level Maintenance (2LM) configurations.

Contact X-ES today to start using Freescale's high performance QorIQ T Series processors for your applications.

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 or call (608) 833-1155.

Data Sheet: <http://www.xes-inc.com/assets/products/files/XCalibur1840-DS.pdf>

Press Photo: http://www.xes-inc.com/assets/photos/content/114111_XCalibur1840.jpg

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