



PRESS RELEASE

Another Flight-Qualified Intel Core i7-Based System from X-ES

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Extreme Engineering Solutions, Inc. (X-ES) announces another flight-qualified Intel® Core™ i7-based multiprocessor system. X-ES routinely partners with prime contractors to support their applications on X-ES's rugged COTS modules and systems. In this case, the industry-leading SWaP and performance advantages of the [XPand4208](#)'s Intel Core i7-based SBCs, networking modules, and power supply module, along with the convenience and security of two hardware-encrypted removable SSD modules, were leveraged by the prime contractor to win their program.

The XPand4208 includes two Intel Core i7-based 3U VPX modules, an [XPm2120](#) VITA 62 3U VPX power supply, and two [XPort6193](#) removable SSDs that allow for quick, toolless insertion and extraction. The system utilizes an XChange3013 3U VPX Gigabit Ethernet switch mated with the [XPedite5205](#) Cisco IOS-based router XMC to provide its backplane fabric and secure networking capabilities. This system also simplifies future upgrades and additional configurations with two 3U VPX expansion slots for additional I/O or processing capabilities and an open architecture based on the use of 3U OpenVPX (VITA 65)-compatible modules.

The SWaP-optimized [XPand4200 Series](#) systems utilize a compact, light-weight, and extremely rugged forced-air heat exchanger design to maximize high-temperature performance in the most demanding environmental conditions, while minimizing size and weight. They also integrate a dynamic fan controller, allowing them to run nearly silent in controlled environments. For this deployment, the XPand4208 LRU was qualified to comply with MIL-STD-810F and DO-160F environmental specifications for temperature, altitude, vibration, shock, humidity, sand and dust, waterproofness, magnetic effects, explosive atmosphere, fluid susceptibility, fungus resistance, and salt fog. It was also qualified for EMI compliance according to MIL-STD-461F for conducted, as well as radiated, emissions and susceptibility.

Another example of a pre-configured, application-ready, XPand4200 Series product is the [XPand4206](#). With three [XPedite7477](#) Intel Core i7-based 3U VPX processing modules, the XPand4206 system provides an industry-leading combination of processing performance and SWaP. The XPand4206 utilizes the 3U VPX [XChange3018](#) to provide a high-throughput internal 10 Gigabit Ethernet fabric. The system also provides a plethora of external I/O, including three 10 Gigabit Ethernet ports, twelve Gigabit Ethernet ports, twelve CAN bus channels, sixteen serial ports, and six USB ports.

The XPand4206 and XPand4208 can be configured to support Intel's Active Management Technology (AMT). AMT allows developers and installers to remotely access diagnostic information and perform system maintenance on each processor module via a single, secure network connection. This drastically simplifies developing, installing, and upgrading multiprocessor platforms by eliminating the need for separate user-accessible serial ports or keyboard, video, and mouse ports from individual processor modules.

Contact X-ES to increase your application's performance and Technology Readiness Level (TRL), while reducing SWaP, with COTS modules and system solutions from X-ES.

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: xes-inc.com or call (608) 833-1155.

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