



Press Release

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X-ES Introduces 1/2 ATR System with Increased Cooling Capability for Demanding Military Applications

Middleton, WI – February 9, 2012 – Extreme Engineering Solutions, Inc. (X-ES) is shipping the [XPand4201](#), a sub-1/2 ATR, forced air-cooled enclosure for conduction-cooled modules. The XPand4201 is designed to reduce the Size, Weight, and Power (SWaP) of deployed military systems. A fully populated XPand4201 weighs less than 19 pounds and is ideal for C4ISR applications in vehicles such as UAVs, helicopters, planes, tanks and light armored vehicles, HMMWVs, and UGVs.

The [XPand4201](#) conducts heat from conduction-cooled modules to heat exchangers, where the heat is dissipated to the ambient environment by forced-air cooling. Its sidewall heat exchangers are 1/2" wider than those of the [XPand4200](#) to provide increased cooling, while a heat exchanger integrated on the top of the XPand4201 allows for significantly higher cooling capability over similar systems. Because the design supports conduction-cooled boards in an air tight enclosure, the XPand4201 provides enhanced shock and vibration protection and isolation of the boards from the outside environment.

Up to five conduction-cooled, 0.8" pitch 3U VPX payload modules and one 3U VPX power supply module can be configured into the 5.88" (W) x 6.0" (H) x 13.5" (D) [XPand4201](#). The system has an optional removable memory module attachment that supports the [XPort6192](#) Solid State Disk (SSD) Removable Storage Module, with 256 GB of encrypted storage capacity. With the memory module attachment the height increases to 7.62".

The [XPand4201](#) can be configured to meet custom I/O requirements with conduction-cooled PMC / XMC modules available from X-ES or third parties. It also supports 10-Gigabit Ethernet, Gigabit Ethernet, graphics, RS-232/RS-422, MIL-STD-1553, ARINC 429, CANbus, CameraLink, GPIO, and digital and analog I/O. An optional front panel USB port provides system monitoring and maintenance capabilities. There are several power supply options, supporting a MIL-STD-704 28V DC or 115V AC input, as well as internal EMI filtering and hold-up for up to 50ms.

About X-ES — Extreme Engineering Solutions, Inc. (X-ES) designs and builds chassis, single-board computers, I/O, power, backplane, and system-level products within the embedded computer industry. 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/products/view/xpand4201/>

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