X-ES Introduces an Intel® Core™ i7 Based Fanless Embedded Box PC

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Extreme Engineering Solutions, Inc. (X-ES) has introduced the XPand6103, the industry's smallest and most rugged Fanless Embedded Box PC utilizing the Intel® Core™ i7 processor. The XPand6103 is a reliable and maintenance-free high-performance computing platform ideally suited for environmentally challenging and space constrained situations. It was specifically designed for rugged yet processing intensive Industrial PC (IPC), vehicle, and rail transportation applications, and provides an optimal solution for demanding autonomous vehicle computing requirements.

The XPand6103 maximizes processing performance, thermal performance, and modularity while minimizing cost and size by integrating support for the latest industry standard components. This includes support for X-ES's line of Rugged COM Express™ modules, such as the XPedite7450, which integrate the most recent Intel Core i7 and Freescale QorIQ™ processors in a small, thermally efficient, and robust circuit board design. The internal 64 GB Slim SATA SSD memory module combines the convenience of high-capacity off-the shelf storage with the reliability and performance of SLC NAND Flash memory.

The XPand6103 is equipped with a number of I/O interfaces through its rugged and environmentally sealed M12 connectors. The standard configuration includes DisplayPort++ video, two Gigabit Ethernet, USB, four CAN Bus, and RS-232/RS-422 ports. The system can also be configured to provide up to two 10 Gigabit Ethernet 10GBASE-T interfaces. With three internal PCI Express Mini slots and support for two external antennae, the XPand6103 offers a flexible array of additional I/O configurations, including WLAN, cellular, and GPS.

The XPand6103 can be used in most transportation applications without the need for additional power conditioning, saving overall system cost and complexity. This is achieved by supporting a wide nominal input voltage range and complying to the power specifications of SAE J1455, EN50155, ISO-7637-2, MIL-STD-1275, and MIL-STD-704.

Through the implementation of an environmentally sealed and completely rugged design, the XPand6103 can operate within the most demanding environmental conditions. This includes IEC61373, EN50155, and MIL-STD-810 shock and vibration requirements as well as the water immersion requirements of IP67. The XPand6103 also supports operating temperatures from -40°C to +70°C ambient.

Contact us today for more information on the new XPand6103, a compact and truly rugged Fanless Embedded Box PC based on the latest Intel Core i7 processor.

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: www.xes-inc.com/assets/products/files/XPand6103-DS.pdf
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