X-ES

Press Release

X-ES Introduces the Avionics Development Platform to Accelerate Deployed Avionics System Development

Middleton, WI – November 1, 2010 – Extreme Engineering Solutions, Inc. (X-ES) is shipping the Avionics Development Platform (ADP) to facilitate the development and rapid deployment of avionics systems. The ADP is a prepackaged 3U OpenVPX development platform that provides functionality and I/O commonly required by avionics applications. The ADP enables the deployed system hardware to be developed in parallel with the software development effort to reduce overall development schedule and risk.

The ADP utilizes an OpenVPX development chassis that supports conduction-cooled payload modules, an OpenVPX backplane, and air-cooled RTMs. The same conduction-cooled 3U VPX modules used in the lab development platform can be utilized in the deployed system. As a result, software developed on the ADP will run on the deployed system, reducing schedule risk and increasing the Test Readiness Level (TRL) of the deployed system.

The ADP features include:

- OpenVPX development platform with a development power supply, an RTM bay, and ten one-inch pitch slots for 3U conduction-cooled modules
- 3U OpenVPX backplane with eight payload slots, two switch slots, and two power slots
- 3U VPX Single Board Computer (SBC) based on the Intel Core 2 Duo, Intel Core i7, Freescale MPC8640D, MPC8572E, P2020, or P4080 processor
- Optional payload modules:
  - 3U VPX PCI Express and Gigabit Ethernet integrated switch
  - Avionics level (+28V), eight channel, isolated GPIO XMC
  - Eight, dual redundant, MIL-STD-1553 channels PMC
  - Four, dual redundant, MIL-STD-1553 channels, sixteen receive and six transmit ARINC 429 channels PMC
  - MIL-STD-188-203-1A (ATDS) interface PMC
  - Multi-protocol four port serial PMC
  - 80 GB SSD XMC or 128 GB removable SSD storage module
- Operating system BSP and drivers for all VPX and mezzanine modules

"Our first ADP customer is saving six months in their development schedules," said Bret Farnum, VP of Sales for X-ES. "This level of integration in a lab system gives customers a 100% functional duplication of their flight hardware and provides tremendous value to customers developing avionics systems."

"While a customer's software development is taking place on the ADP, X-ES can leverage existing designs and expertise to develop a custom ATR chassis, backplane, and power supply for their deployed system," adds Jeff Porter, Lead Systems Engineer at X-ES. "A customer's ADP card set can easily migrate to our deployable XPand3200 or XPand4200 ½ ATR chassis designs."

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.

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