



Press Release

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X-ES Develops Mobile Ad Hoc Network Development Platform for Cisco® 5940 Router-Based Systems

Middleton, WI – Jan. 10, 2012 – Extreme Engineering Solutions, Inc. (X-ES) announces the availability of the [CDP-5940](#), a development platform for the [Cisco® 5940 Embedded Services Router \(ESR\)](#). Integrated into an air-cooled enclosure are conduction-cooled modules, including an Intel® Core™i7 processor-based Single Board Computer (SBC), a 256 GB Solid State Disk (SSD), and a [Cisco 5940 ESR](#). For highly secure yet scalable video, voice, and data services for mobile and embedded outdoor networks, this platform enables application development to start immediately.

The [CDP-5940](#) includes:

- A two-slot, air-cooled enclosure for conduction-cooled 3U CompactPCI modules
- A conduction-cooled, Intel Core i7 processor-based, [XPedite7332](#) 3U cPCI SBC with 8 GB of DDR3 memory and an XMC site
- A conduction-cooled [XPort6103](#) XMC module, hosting a 256 GB SSD with data encryption
- A conduction-cooled 3U cPCI [Cisco 5940 ESR](#)

The Cisco IOS® Software and Cisco Mobile Ready Net capabilities are supported on the [Cisco 5940 ESR](#). With support for Dynamic Link Exchange Protocol (DLEP), the latest protocol in the Radio-Aware Routing (RAR) family of protocols that enable communication between a router and a radio in a mobile ad hoc network, the [5940 ESR](#) can easily integrate with IP-based radios via its four Ethernet links. With a dual-core Intel Core i7 processor and 8 GB of memory, the [XPedite7332](#) has the performance and memory capacity to run multiple mission-specific and advanced networking applications from Cisco, such as Virtual Wide Area Application Services (vWAAS), ASA 1000V Cloud Firewall (a virtual firewall), and Security Gateway. And with a 256 GB SSD mounted on the SBC, the system has ample storage capacity for Cisco applications.

Utilizing the [CDP-5940](#), developers can perform software development on the same conduction-cooled modules that will be deployed in an ATR chassis. When the deployable ATR enclosure is completed, the conduction-cooled modules used in the [CDP-5940](#) can be migrated to the target chassis. In addition to shortening development time, this improves the test-readiness level of the system and decreases integration problems commonly encountered when transitioning development from commercial, air-cooled boards to ruggedized, conduction-cooled boards.

“As a Cisco Solutions Technology Integrator, Extreme Engineering is making it very easy for developers to create rugged, mobile ad hoc network nodes that can be deployed in vehicles, such as the Humvee or Bradley Fighting Vehicle,” states Tony Jeffs, director of Product Marketing at Cisco. “The [CDP-5940](#) allows customers to conduct system development and test in parallel with the development of the target enclosure, substantially shortening time to market and reducing development costs.”

For developers needing a configuration different than the [CDP-5490](#), a two-slot, forced-air-cooled enclosure, the [XPand1030](#), is available as a stand-alone unit. If needed, X-ES will integrate other X-ES 3U cPCI SBCs into the system, along with the [Cisco 5904 ESR](#). The [XPand1030](#) includes:

- Two-slot CompactPCI backplane
- Forced-air cooling of conduction-cooled 3U cPCI modules
- Supports system slot 3U cPCI Single Board Computer (SBC) module
- Supports [Cisco 5940 ESR](#) in peripheral slot
- One RJ-45 Gigabit Ethernet port from SBC, three RJ-45 Gigabit Ethernet ports from [Cisco 5940](#)
- RS-232 serial port from each slot, HDMI, USB 2.0, and eSATA ports from SBC
- Utilizes external ATX power supply

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.

CDP-5940 Data Sheet: <http://www.xes-inc.com/assets/products/files/CDP-5940-DS.pdf>

XPand1030 Data Sheet: <http://www.xes-inc.com/assets/products/files/XPand1030-DS.pdf>

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