X-ES Announces Fully Packaged Rugged Ethernet Switching and Routing Solutions

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Extreme Engineering Solutions, Inc. (X-ES) announces a complete lineup of VICTORY-compliant network switching and routing solutions. Included are the XPand6206, XPand6207, and XPand6208 fully integrated, ready-to-deploy, systems. These systems are high-performance Small Form Factor (SFF) networking solutions that function as secure, standalone, and fully managed switches and routers. They provide a combination of performance, size, and capability unmatched in the industry and include features such as 10 Gigabit Ethernet, the 4th Gen Intel® Core™ i7 processor, and a removable Solid State Drive (SSD). These fully packaged solutions integrate the VICTORY-compliant XChange3013 and XChange3018 3U VPX switches and routers to enable maximum networking performance and versatility using industry-standard COTS components.

All three systems deliver full wire speed across all of their networking ports and support jumbo packets up to 13 KB. They also support IPv6, Energy Efficient Ethernet (EEE), and a comprehensive set of IETF RFCs and IEEE protocols. The XPand6206 maximizes connectivity with support for twenty 10/100/1000BASE-T Gigabit Ethernet ports. The XPand6207 emphasizes network performance with 10 Gigabit Ethernet support, providing six 10GBASE-T 10 Gigabit ports and twelve Gigabit Ethernet ports. The XPand6208 is a fully managed 10 Gigabit and Gigabit Ethernet switch and router that also integrates the 4th Gen Intel Core i7 Processor-based XPedite7570 3U VPX module and XPort6193 removable Solid State Drive (SSD).

When these systems are configured as fully managed Layer 2 switches, support for features such as fast boot, flow control, MAC bridging (IEEE 802.1D), port mirroring, port authentication (IEEE 802.1x), VLANs (IEEE 802.1Q), Quality of Service (QoS), GVRP, MVRP, port and protocol classification (IEEE 802.1v), GARP, MRP, GMRP, MMRP, LACP, RMON, STP, RSTP, MSTP, RPVST+, AgentX, and IGMP are included. When configured as a Layer 3 router, support for Multicast and Unicast Routing features such as DVMRP, IGMP, PIM-DM, PIM-SM, PIM-SSM, MLD, RIP, BGP, OSPFv2/OSPFv3, and VRRP are added.

When paired with the XPedite5205 XMC router module, they include Cisco™ IOS® IP routing and Cisco Mobile Ready Net capabilities. With this technology, the router provides highly secure data, voice, and video communications to stationary and mobile network nodes across both wired and wireless links. With the XPedite5205, Cisco IOS security features are also supported, including hardware encryption, firewalls with integrated threat control, zone-based firewalls, Intrusion Prevention System (IPS), content filtering, identity management using Authentication, Authorization, and Accounting (AAA), and Public Key Infrastructure (PKI).

The XPand6206, XPand6207, and XPand6208 are pre-configured, verified, and tested products in the XPand6200 Series. They share the same highly rugged and SWaP-optimized Small Form Factor (SFF) packaging, backplane, and power supply, but are configured with different 3U VPX and XMC modules. The XPand6200 Series leverages the plethora of COTS 3U VPX, PMC, and XMC modules from X-ES and third parties, providing rapid access to a fully integrated and deployable system that is ideal for programs with tight schedules, minimal NRE budgets, and stringent SWaP requirements. The XPand6200 Series optimizes SWaP, as well as configurability, with the industry's smallest rugged, deployable enclosure that can support two COTS 3U VPX modules and removable storage. All user I/O from the VPX connectors is brought to the system's external circular connectors, enabling the XPand6200 Series to eliminate the need to respin a backplane to support different 3U VPX modules in most cases. The XPand6200 Series also provides an innovative and cost-effective COTS approach for its development fixture. Available as optional accessories, XPand6200 Series products can be bought with stocked development cables and a breakout fixture that uses COTS RTMs for simplified access to I/O from the system's installed modules.

Contact X-ES to learn more about how X-ES networking solutions can be used to solve the immediate demands of your program.

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.

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