Press Release

ABACO presents in FEINDEF, New 3U OpenVPX Rugged Single Board Computer that Uniquely Combines High Performance, Advanced Security and Leading Edge Thermal Management

- *Features new Intel Xeon E-2176M 'Coffee Lake' processor for maximum performance*
- *Innovative thermal management maintains high performance even in adverse environments*
- *Delivers comprehensive Anti-Tamper and Information Assurance functionality for optimum security*

The SBC3511's high performance derives from the new, highly integrated Intel® Xeon® E-2176M 6-core/12-thread processor (formerly known as Coffee Lake) operating at 2.7GHz with TurboBoost up to 4.4GHz, 32 GBytes of DDR4 RAM and the inclusion of up to 256 GBytes of nVME SSD. It also features a 40 Gigabit Ethernet data plane, delivering not only a high speed interconnect but also alignment with the SOSA™ technical standard.

SOSA – Sensor Open Systems Architecture - creates a common framework for transitioning sensor systems to an open systems architecture, based on key interfaces and open standards established by industry-government consensus.

The new single board computer includes a range of security features designed to assist with user-defined Anti-Tamper and Information Assurance strategies. The onboard Xilinx® Zynq® UltraScale+™ MPSoC's built-in security capabilities include a physical unclonable function (PUF), user-accessible hardened cryptographic blocks, asymmetric authentication, side channel attack protection, and other silicon-based AT features. It can be utilized to instantiate a range of Abaco-defined security features, or by customers to embed application-specific features. Support is also provided for Intel's Trusted Execution Technology.

The SBC3511 features a unique thermal management design which allows deterministic high performance even at the extended temperatures typical of deployment on space-constrained

platforms in combat zones. This is in contrast to less efficient thermal management designs that see a processor's performance throttled back at high temperatures.

"The SBC3511 is the result of extensive feedback from our customers about what they want," said Peter Thompson, Vice President, Product Management at Abaco Systems. "Their priorities are maximum processing power under all conditions for advanced applications; comprehensive provision for security; and interoperability. The SBC3511 not only delivers on these requirements, but is also supported by Abaco's extensive ecosystem that includes graphics processors, FPGA and DSP boards, switches and carrier cards to enable the creation of complete systems."

Development kits, including starter cages and accessories, are also available.

The SBC3511 also includes a x8 PCIe™ Gen 3 XMC site; one USB 2.0 port and one USB 3.1 port; a DisplayPort™ interface; two serial ports; a SATA port; and up to eight GPIO pins.

Also included is a rich range of software options. AMI UEFI includes support of BIOS Guard for signed image execution. Open Linux® (Fedora), Red Hat Enterprise Linux, CentOS (Linux), Wind River Linux, VxWorks® 7, Windows® 10 will also be available, as will comprehensive deployed test software (PBIT, CBIT and IBIT).

Find out more

SBC3511 product page

SBC3511 data sheet

About Abaco Systems

With more than 30 years' experience, Abaco Systems is a global leader in open architecture computing and electronic systems for aerospace, defense and industrial applications. We create innovative, modular solutions based on open standards that are characterized by outstanding price/performance, ultimate rugged reliability and minimal SWaP. Our goal is to be a significant contributor to our customers' success, partnering with them to reduce cost, time-to-deployment and risk and supporting them over the long term. With an active presence in hundreds of national asset platforms on land, sea and in the air, Abaco Systems is trusted where it matters most.
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