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FOR IMMEDIATE RELEASE

VersaLogic announces EBX-format computer with Intel BayTrail processor

Tualatin, OR — December 6, 2016 — VersaLogic Corp., an Oregon-based embedded computer company, today announced a new EBX™ format single board computer. Named the "Viper", it features extensive I/O capabilities, power consumption of only 6 watts (typical), and fanless operation over the full industrial temperature range (-40 to +85°C).

The Viper is available in three performance levels; single-, dual-, and quad-core models. The quad-core model delivers over 2x the performance of systems using the "Montevina" Core 2 Duo processor, with a 38% reduction in power consumption!

Viper provides capabilities not found in previous EBX products including:
- On-board Trusted Platform Module (TPM)
- USB 3.0 port
- Flexible voltage input (5V or a wide input 9 to 15V).

Based on the industry-standard EBX form factor (5.75 x 8 inches), it is an excellent solution for industrial and medical applications that need considerable on-board I/O.

"This is the perfect upgrade for systems using EBX embedded computer boards. It provides both increased performance and additional on-board I/O capabilities." said Len Crane, VersaLogic's President. "With considerably higher performance, reduced power consumption, hardware security functions, and multi-voltage power input, and lots of on-board I/O, it's a no-brainer, especially for upgrading existing EBX systems."

Viper features no moving parts and was designed and tested to withstand extreme temperatures, high-impact, and vibration. This single board computer is an ideal choice for applications that require a rugged, high quality product. The Viper features an industrial temperature Intel Atom E38xx processor optimized for performance and power balance.

Built-In Security
The Viper's on-board Trusted Platform Module (TPM) security chip can be used to lock out unauthorized hardware and software access. It provides a secure processing environment for applications in Defense, Medical, and Industrial Control that require enhanced hardware-level security functions. Additional security is provided through built-in AES (Advanced Encryption Standard) processor instructions.

Powerful Video Processing
Viper supports dual Mini DisplayPort++ outputs as well as legacy VGA and a single/dual-channel LVDS display outputs. Intel's advanced Gen 7 HD graphics engine provides outstanding graphics performance and is capable of supporting two simultaneous 1080p video streams. On-board hardware acceleration is available for encode/decode of H.264, MVC, VP8, VC1/WMV9, and other standards. The graphics engine also supports dual display support, DirectX 11, Open GL 4.0, full HD video playback, and resolution up to 2560 x 1600 @ 60Hz.

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On-board I/O

The generous on-board I/O ports include a USB 3.0 port, six USB 2.0 ports, dual 10/100 Ethernet, four serial ports, thirty two digital I/O lines, eight 12-bit analog inputs, and four 12-bit analog outputs. Dual SATA interfaces support high-capacity rotating or solid-state drives.

Flexible System Expansion

Viper's dual Mini PCIe sockets allow easy on-board expansion with plug-in Wi-Fi modems, GPS receivers, and other mini cards such as MIL-STD-1553, Ethernet, and Analog.

For stacking expansion using industry-standard add-on boards, the Viper supports classic PC/104-*Plus* expansion (ISA and PCI). The PC/104-*Plus* expansion site provides plug-in access to a wide variety of expansion modules from numerous vendors, all with bolt-down ruggedness.

An SPI / SPX™ expansion interface offers additional plug-in expansion for low-cost analog and digital I/O devices.

A Mini PCIe socket with mSATA capability and a microSD socket provide flexible solid-state drive (SSD) options.

Designed for Extreme Environments

The Viper is designed and tested for full industrial temperature (-40º to +85ºC) operation. In addition, it meets MIL-STD-202G specifications for mechanical shock and vibration. Latching connectors provide additional ruggedization for use in extremely harsh environments. Transient voltage suppression (TVS) devices on critical I/O ports provide enhanced electrostatic discharge (ESD) protection for the system. The Viper is ideal for medical, aerospace, homeland security, and industrial applications that require high reliability in harsh environments.

Long-term Availability

The Viper is covered by VersaLogic's 5+ year availability guarantee, and a 5-year product warranty. VersaLogic's Life Extension program typically keeps each technology generation available for 10+ years (past year 2026). Customization services to help customers create unique solutions are available for the Viper, even in low OEM quantities. Customization options include conformal coating, revision locks, custom labeling, customized testing and screening, and more.

Availability

The Viper single board computer (part number VL-EBX-38) will be available Q1 2017 from both VersaLogic and Digi-Key Corporation. Contact Sales@VersaLogic.com or visit www.VersaLogic.com for more information.

About VersaLogic Corporation

VersaLogic Corp. built its reputation on very high reliability products and superior service. A 40-year history of consistency has earned VersaLogic the reputation of being the industry's most trusted embedded computer company. VersaLogic delivers state-of-the-art embedded computers, coupled with expert technical support, for critical long-life markets such as the medical and defense industries. For more information, visit www.VersaLogic.com.

Press Release Photos

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