FOR IMMEDIATE RELEASE

VersaLogic releases error-correcting credit-card sized computers

Tualatin, OR — July 7, 2020 — VersaLogic Corp., the embedded industry's most trusted computer company, has released a new SWaP-optimized embedded computer with error correcting (ECC) memory.

Named "Harrier", this new embedded computer features Intel®'s latest 5th generation Apollo Lake Atom™ processors with error-correcting memory. The Harrier also includes a TPM 2.0 security chip, on-board power regulation, USB and Ethernet I/O ports, and Mini PCIe expansion sockets. The soldered-on ECC RAM enhances both the reliability and ruggedness of the product.

Aiming high
"With its ECC memory, the Harrier is ideal in environments where memory errors may occur due to cosmic ray interactions, which increase dramatically at altitude," said Len Crane, VersaLogic President. "Applications such as High Altitude Long Endurance (HALE) UAVs and High Altitude Pseudo Satellite (HAPS) systems present a considerable challenge related to memory errors. The Harrier is available with up to 8 GB of Error Correcting Code (ECC) memory to address this risk in any critical application."

Small and tough
Within its 55 x 95 x 29 mm package and low power consumption, the Harrier is sized for SWaP applications such as in unmanned vehicles on land, underwater, or in the air. The Harrier is designed and tested for full industrial temperature (-40º to +85ºC) operation and meets MIL-STD-202H specifications for shock and vibration. In addition, the on-board power regulation ensures reliable operation with fluctuating or noisy power sources.

Security
The built-in TPM 2.0 security chip provides hardware-level security for applications that require secure log-ins, encrypted data storage, protected files, etc.

Connectivity
On-board I/O includes dual Gigabit Ethernet, one USB 3.0 and four USB 2.0 ports, and two serial ports. A SATA interface, eMMC Flash, mSATA slot, and a microSD socket provide a range of data storage options. Dual Mini PCIe sockets accommodate plug-in A/D, Wi-Fi modems, GPS receivers, MIL-STD-1553, Ethernet, FireWire, CAN, and other mini cards.

Long-term availability
Like other VersaLogic products, the Harrier is designed from the ground up for long-term availability (10+ year typical production lifecycle).

Customization
Customization services to help customers create unique solutions will be available for the Harrier, even in low OEM quantities. Customization options include conformal coating, revision locks, custom labeling, customized testing and screening, etc.

– MORE –

Pricing and Availability

The Harrier (VL-EPU-4011) is now in stock at both VersaLogic Corp. and Digi-Key Corp. OEM pricing starts at $720. Contact Sales@VersaLogic.com for more information.

About VersaLogic Corporation

VersaLogic delivers state-of-the-art embedded computers, coupled with expert technical support, for critical markets such as medical and defense. Featuring long-term availability, -40° to +85°C operation, MIL-STD-202 shock and vibration testing, and outstanding US-based support, VersaLogic products are ideal for critical applications that value ruggedness, reliability and long life. A 40+ year history of consistency has earned VersaLogic the reputation of being "the industry's most trusted embedded computer company." For more information, visit VersaLogic.com.

Press Release Photos

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