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## **Core Avionics & Industrial Inc. Announces Industry's First Single Board Computer Hardware IP Based on NXP LX2160 and Arm that is Designed for DO-254 DAL A Certification and Aligned with the Latest SOSA and HOST Standards**

**FACE Technology Interchange Meeting (TIM), Dayton, Ohio, September 17, 2019:** Core Avionics & Industrial Inc. ("CoreAVI") announced today the release of its new rugged SBC0003 COTS 3U VPX NXP® LX2160-based Single Board Computer hardware design IP with Arm architecture. CoreAVI's COTS-D product line, part of CoreAVI's Platforms for Safety Critical Applications (PSCA), enables customers with IP, including design source files and required DO-254 certification evidence, to allow them to immediately manufacture and certify SBCs and graphics modules. The SBC0003's low powered, high performance characteristics offer an evolution from the last family of Power Architecture processors to new Arm configurations. The SBC0003 is designed to be aligned with the SOSA and HOST open standards, which allow for interoperability, reusability, and affordability across hardware suppliers.

Ideal for high performance aerospace and defense applications, the SBC0003 provides integrated features such as ECC, parity, support for hardware assisted virtualization and partitioning enforcement, along with safety and security blocks that make it suitable for robust applications. Designed with Arm 64-bit Armv8-A Cortex® -A72 cores, the SBC0003 is the industry's inaugural safety critical SBC supporting NXP's multicore LX2160A (16 cores), LX2120A (12 cores), or LX2080A (8 cores) family of QorIQ® Layerscape® processors. Including an XMC2 expansion site, the SBC0003 maximizes the functionality available in a single-slot 3U VPX system. SBC0003 is designed for rugged environments, is RTCA DO-254/EASA ED-80 certifiable up to DAL A and comes with all the data needed to support safety certification. The SBC0003 is fully compatible with GPM0001, CoreAVI's 3U VPX E9171-based graphics module.

"We are excited to have our SoC included as an integral piece of this flagship single board computer," said Geoff Waters, Chairman of the NXP-led Multicore for Avionics Working Group. "We're confident there are tremendous opportunities for airborne applications to take advantage of NXP's latest high performance, multicore processors with Arm® technology, and we look forward to seeing our LX2160 SoC flying in modern aircraft in the near future."

"Arm represents the next generation of application architecture for the mil/aero industry," said Dan Joncas, Executive Vice President of Sales and Marketing at CoreAVI. "CoreAVI is thrilled to be the first to offer our customers the benefits of a safety critical NXP-based 3U VPX SBC with Arm architecture as part of our Platforms for Safety Critical Applications, providing them with



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flexibility and choice in architecture and feature sets for new systems, with the much-needed SWaP-savings that avionics applications require.”

For more information, please contact [Sales@coreavi.com](mailto:Sales@coreavi.com).

#### **About Core Avionics & Industrial Inc.**

Core Avionics & Industrial Inc. (“CoreAVI”) is a pioneer in the military and aerospace sector with a proven track record in providing entire software and hardware IP platform solutions that enable safety critical applications. A global leader in architecting and supplying real-time and safety critical graphics, compute, and video drivers, “program ready” embedded graphics processors, and DO-254/ED-80 certifiable COTS hardware IP, CoreAVI’s suite of products enables the design and implementation of complete safety critical embedded solutions that achieve the highest levels of safety certification with long-term support. CoreAVI’s solutions are deployed in commercial and military avionics systems, and support rapidly emerging compute applications in the automotive, unmanned vehicle, and internet of things markets. CoreAVI’s products may be purchased with certification data kits for the most stringent levels of safety certification, including RTCA DO-254/DO-178C and EUROCAE ED-80/ED-12C. [www.coreavi.com](http://www.coreavi.com)