
CoreAVI Provides DO-254 Safety Data Package and DTR (Dynamic Temperature Range) Screened Versions of 11th Gen Intel Core i7 Processor for Avionics and High Reliability Markets

Tampa, Florida, September 18, 2023: Core Avionics & Industrial Inc. (“CoreAVI”) announced the availability of Dynamic Temperature Range (DTR) screening and DO-254 safety certification package, with the 11th Gen Intel Core i7 processor to support military, aerospace, urban air mobility and other high reliability markets. CoreAVI will provide special DTR-screened versions of the 11th Gen Intel Core i7 processor with thermal throttling fused off to ensure deterministic operation. The Intel Airworthiness Evidence Package (Intel AEP) – a DO-254 data package created by Intel to support their hardware’s safety certification – is also available from CoreAVI.

In addition, CoreAVI provides their safety critical software portfolio capable of achieving RTCA DO-178C DAL A. CoreAVI’s support for the 11th Gen Intel Core i7 processor includes its VkCore® SC Vulkan® SC™-based graphics and compute driver, VkCoreGL® SC1/SC2 OpenGL® SC™1 and OpenGL® SC™2 libraries, TrueCore™ GPU safety monitor, ComputeCore™ libraries that provide a safety critical framework to support accelerated GPU compute, vision systems and safe AI, as well as EncodeCore® and DecodeCore® H.265/H.264 encode and decode libraries. CoreAVI’s safety critical software stack combined with the 11th Gen Intel Core hardware enables a low-risk, safety certifiable graphics and compute platform with excellent performance per watt that scales across a wide range of application requirements such as mission computers, autonomous systems, and augmented vision and detection systems with 20+ years longevity of supply.

The 11th Gen Intel Core processor incorporates the Intel Iris Xe graphics. With up to 4 CPU cores, 4 X 4K displays and extended temperature ratings, the Intel Core i7-1186GRE processors from Intel’s embedded roadmap offers scalable power, anti-malware hardware (CET) enhanced security, and the high-performance gains ideal for the advanced parallel processing required in today’s avionics and industrial applications.

“We are proud of this collaboration with Intel that allows us to provide DTR screened versions of 11th Gen Intel Core processors and support for DO-254 to effectively enable our customers,” said Dan Joncas, Chief Sales and Marketing Officer at CoreAVI. “Our extensive software suite paired with the processing power of the 11th Gen Intel Core i7 processor provides integrators with the complete set of tools they need to reach the highest levels of safety criticality in airborne applications.”

“Customers creating next generation mission critical computers need to improve program risk, development costs and timelines,” said Ian Ferguson VP Marketing and Strategic Alliances, Lynx Software Technologies. “We feel that our partnership with CoreAVI around the creation and delivery of software and hardware certification packages for 11th Gen Intel Core processors is critical to enabling this.”

“We view the screening of DTR function within Intel’s 11th Gen SoC as critical for many use cases within the avionics industry,” said Peter Mueller, VP EPC Modules at Kontron. “DTR screening is supported by Kontron’s COMe cTL6 module and we pride ourselves in providing our customers with best in modern aerospace technology for their next-gen safety critical applications.”

For more information, please contact CoreAVI.

Media Inquiries

Mary Beth Barrans, Director of Marketing marybeth.barrans@coreavi.com

About Core Avionics & Industrial Inc.

CoreAVI is the global leader in architecting and delivering safety critical graphics and compute software drivers and libraries, embedded ‘system on chip’ and discrete graphics processor components, and certifiable platform hardware IP. CoreAVI’s comprehensive software suite enables development and deployment of complete safety critical solutions for automotive, industrial, and aerospace applications requiring certification to the highest integrity levels coupled with full lifecycle support. CoreAVI’s solutions support both graphics and compute applications including safe autonomy, machine vision and AI in the automotive, unmanned vehicle and industrial IoT markets, as well as commercial and military avionics systems. www.coreavi.com

Follow CoreAVI on Social Media:

[Twitter](#)
[LinkedIn](#)

All trademarks are the property of their respective owners Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries.