



Core Avionics & Industrial Inc.
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CoreAVI Releases DO-178C Certifiable H.264/MPEG2 Video Decode Drivers Designed for Real Time Operating Systems and Safety Critical Platforms

CoreAVI's new H.264/MPEG2 video decode driver suite, fully integrated with their OpenGL SC graphics driver, will be on display February 24-26 in Nuremberg, Germany at Embedded World 2015 in AMD's booth at Hall 1, #1-138. The 3D synthetic vision cockpit display demonstration system utilizes Esterel's SCADE Display HMI and features the AMD Embedded Radeon™ E8860 graphics processor and Universal Video Decode (UVD) engine enabled on Wind River VxWorks 7 RTOS and Curtiss-Wright's VPX3-133 (Freescale T2080) SBC and VPX3-716 graphics module.

Embedded World Conference, Nuremberg, Germany, February 24, 2015. Core Avionics & Industrial Inc. (CoreAVI) has announced the production release of their safety critical H.264/MPEG2 video decode driver suite designed to enable the use of the Universal Video Decoder (UVD) engine integrated on AMD's Embedded Radeon™ E8860 GPUs in avionics and high reliability embedded systems markets. Designed from the ground up to achieve FAA DO-178C / EASA ED-12C safety certification, fully integrated with CoreAVI's industry leading OpenGL ES/SC driver product family and performance optimized for resource-constrained devices, the video decode driver solution is now being delivered and deployed in both airborne and ground control systems globally.

CoreAVI's fully thread safe video decode driver architecture allows the decoding of multiple independent and simultaneous compressed HD video streams. Decompressed video is rendered through CoreAVI's proprietary Video Decoder API. This unique rendering, coupled with CoreAVI's OpenGL drivers, allows video overlay and full manipulation of the video through the target graphics processor texturing engine. The architecture also supports various multicore and hypervisor system configurations. The solution is ideal for real time and safety critical streaming video applications such as UAV ground control stations, 360 degree situational awareness, Diminished Vision Enhancement (DVE), Geographic Information Systems (GIS), moving maps and various sensor systems.

"Today, CoreAVI's graphics and video drivers are used by many of the world's leading avionics manufacturers, such as Boeing, Airbus, and Honeywell. CoreAVI is committed to investing in expanding our product portfolio to further enable our key partner's technologies. Collectively, we are delivering our customers a new generation of advanced graphics and multicore solutions to allow them develop new operational capabilities utilizing the most efficient smart display technologies," says Lee Melatti, President at CoreAVI.

"Curtiss-Wright is excited to have CoreAVI extend their supported products to include high definition video decode driver capabilities. Our VPX3-716, VPX3-718 and XMC-715 graphics modules are strategically aligned with and supported by CoreAVI's graphics and video driver suites and DO-178C/DO-254 safety certification packages," said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions. "CoreAVI and Curtiss-Wright have already completed hardware integration and delivery of the new video decode solution to a key avionics customer for use in their flight display system."

"The combined value of CoreAVI's new safety critical video decode driver suite and proven OpenGL drivers using Wind River safe and secure operating systems, including VxWorks 7, VxWorks 653 and VxWorks MILS delivers a compelling offering to the market, says Dinyar Dastoor, Vice President and



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General Manager of Operating System Platforms at Wind River. “With the availability of FAA DO-178B/C and DO-254 certification packages, CoreAVI and Wind River’s integrated solution stack reduces risk and cost, and speeds time to market for our customers.”

“AMD is very impressed by the combined hardware and software technologies successfully using AMD embedded graphics in flight display systems,” said Scott Aylor, Corporate Vice President and General Manager, Embedded Solutions at AMD. “Building on the successful deployments of the AMD Embedded Radeon™ graphics processor family in the avionics market, AMD is excited about the addition of safety critical video decode driver support by CoreAVI.”

CoreAVI’s new H.264/MPEG2 video decode driver suite will be on display at AMD’s booth in Hall 1, #1-138 at Embedded World 2015 in Nuremberg, Germany.

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About Core Avionics & Industrial Inc.

Core Avionics & Industrial Inc. (“CoreAVI”), a Channel One company, provides “program ready” embedded graphics and video processors and advanced graphics solutions to mil-aero and high reliability embedded systems manufacturers. CoreAVI’s products include 20+ year component supply management, temperature-screened versions of the AMD Radeon™ graphics processors and embedded graphics and video driver support for real time operating systems and safety critical platforms. CoreAVI’s program support includes complete RTCA DO-178C / EUROCAE ED-12C Level A safety critical certification evidence for safety critical environments. www.coreavi.com

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