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U.S. Army to Deploy Doppler Global Positioning Navigation Set Supported by AMD Embedded Radeon™ GPU and CoreAVI's Safety Critical Graphics Driver and RTCA DO-178C Certification Packages

Tampa, Florida October 23, 2017. Core Avionics & Industrial Inc. ("CoreAVI") has announced the completion of the integration of CoreAVI's ArgusCore SC™ (OpenGL SC®) graphics driver with BAE Systems' ASN-128E Doppler/Global Positioning System Navigation Set (DGNS). This driver delivery supports the AMD Embedded Radeon GPUs and includes the integration of a Card Support Library provided by BAE Systems, running on the Green Hills® Software INTEGRITY-178 Real Time Operating System.

The completed OpenGL SC driver delivery included CoreAVI's CertCore178™ data package, a complete RTCA DO-178C graphics driver certification package. Additionally, CoreAVI continues to provide long term managed supply of extended temperature range AMD Embedded Radeon GPU devices.

The OpenGL SC graphics driver is part of CoreAVI's suite of standard product safety certifiable drivers developed to RTCA DO-178C/EUROCAE ED-12C certification standards including DecodeCore™ (H.264 video stream decode driver), EncodeCore™ (H.264 video encode driver), and HyperCore™, a safety critical GPU virtualization manager for Hypervisor platforms. These drivers have certification packages supporting up to and including Design Assurance Level (DAL) A, the most stringent level.

BAE Systems' ASN-128E is a self-contained Doppler navigation set that provides autonomous point-point navigation. This represents the fourth upgrade of the ASN-128, adding military Global Positioning System (GPS), Instrument Flight Rules (IFR) certification and removing obsolescence. The graphics update to the Computer Display Unit (CDU) portion of the ASN-128D provides an improved display capability for critical data with integrated information to decrease pilot workload. The CDU features a touchscreen display with an intuitive pilot interface for moving maps with vertical obstruction overlay, and electronic Flight Information Publication (FLIP) charts, as well as many more capabilities. The U.S. Army is modernizing the existing DGNS CDU for deployment on UH-60L helicopters.

"CoreAVI has successfully merged our Card Support Library software with the graphics driver to provide an integrated safety critical driver library for our set," said Bill Friedman, BAE Systems Doppler Program Manager. "CoreAVI provided an open and supportive environment leading to this successful OpenGL SC driver delivery on our target hardware and operating system platform."

"CoreAVI provides the avionics sector with the most cost-effective graphics driver libraries meeting safety critical requirements," said Damian Fozard, CEO of CoreAVI. "We worked closely with BAE Systems to successfully deploy their ASN-128E Doppler navigation set and were able to meet their



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program milestones and performance targets. Additionally, through our long-term hardware support program, we will support their production requirements for the life of their program."

For more information, please contact CoreAVI.

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About Core Avionics & Industrial Inc.

Core Avionics & Industrial Inc. ("CoreAVI"), a Channel One company, is a global leader in providing products and services designed to enable complete solutions for safety critical applications. A supplier of real-time and safety-critical graphics and video drivers, compute drivers, "program ready" embedded graphics processors, and DO-254/ED-80 certifiable COTS hardware IP, CoreAVI's suite of products enables commercial GPUs, SoC components, and COTS hardware designs to meet the requirements of long-term high-reliability and safety-critical embedded systems with long-term support. CoreAVI's products may be purchased with certification data kits for the most stringent levels of RTCA DO-254/DO-178C and EUROCAE ED-80/ED-12C. www.coreavi.com