



NEWS RELEASE

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Rugged Airborne Flight Test Systems are First to Deploy Data Analysis/Visualization Software in Compact Mission Computer

New Airborne IADS flight test display and analysis systems deploy IADS RTStation software to give pilots and test engineers real-time access to critical data onboard the test aircraft

ASHBURN, Va. – May 02, 2024 – [Curtiss-Wright's Defense Solutions Division](#) has announced the availability of two new fully integrated Modular Open Systems Approach (MOSA) Airborne IADS mission computers that enable the airborne deployment of IADS RTStation, the market-leading software solution for real-time and post-test data visualization for flight test programs. The rugged Airborne IADS systems deliver the power and flexibility of the full IADS RTStation software suite directly to the pilot and flight test engineers onboard the test vehicle. This industry-first provides direct access to critical data analysis and visualization data onboard the aircraft while undergoing test flights. The IADS RTStation software translates industry-standard flight test data formats into an array of information-rich, complex 2D/3D visuals. Its client-server architecture enables scalable, remote capture of telemetry data, un-tethered from the flight test range. Every data point is cached, allowing real-time scroll-back through the time history.

Both the Airborne IADS NXDP-4000-1 and Airborne IADS NXDP-3000-1 systems combine a Microsoft® Windows® compatible Curtiss-Wright ruggedized Parvus® DuraCOR® mission computer with a full desktop version of IADS RTStation software. The size, weight, and power (SWaP) optimized ultra-small form factor (USFF) NXDP-

3000-1 features an Intel® Atom™ x6400E processor-based Parvus DuraCOR 313 Mission Computer. For more compute-intensive airborne flight test programs, the small form factor (SFF) NXDP-4000-1, based on the Parvus DuraCOR 8044 Mission Computer featuring the more powerful Intel® Xeon-W processor, is also available. The Airborne IADS systems provide users with an interactive interface that enables them to quickly customize displays, parameter definitions, analysis options and test setups in a matter of seconds. Users can then send these customized data configurations to displays on a connected monitor.

“In an industry-first, we have combined our market-leading IADS RTStation software for flight test with our extremely rugged and compact Parvus DuraCOR family of mission computers to deploy real-time data analysis and visualization capabilities to pilots and test engineers onboard the test platform while in flight,” said Brian Perry, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions Division. “The new Airborne IADS NXDP-3000-1 and Airborne IADS NXDP-4000-1 systems, our most capable real-time onboard data processing and display products, uniquely provide users with the power to perform complex calculations on flight test data while onboard the test vehicle.”

About Curtiss-Wright's IADS Software

IADS is the flight test market's leading real-time and post-test display and analysis software suite. Scalable, from a single laptop to a large workgroup, through its client/server software architecture, IADS provides flight test engineers with a complete solution that includes real-time data processing, archiving, computation, and display.

As the industry's premier flight test software suite, IADS is used by every major test program in the U.S. and in many other countries worldwide. It enables flight test engineers to monitor, in real-time, huge amounts of data collected from an aircraft during a flight test program. This data is used to help validate the successful completion of test points and for safety. IADS also enables detailed analysis of the data to be performed post-test, using IADS Post Test Explorer, a data search, analytics, and visualization platform designed specifically for the flight test industry.

With support for user-customizable data display, IADS significantly improves flight test efficiencies and helps to speed program completion.

Product sheets for Airborne IADS systems are available for download [here](#).

For additional information about Curtiss-Wright Defense Solutions products, please visit www.curtisswrightds.com, LinkedIn, and X @CurtissWrightDS.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation (NYSE:CW) is a global integrated business that provides highly engineered products, solutions and services mainly to Aerospace & Defense markets, as well as critical technologies in demanding Commercial Power, Process and Industrial markets. We leverage a workforce of approximately 8,600 highly skilled employees who develop, design and build what we believe are the best engineered solutions to the markets we serve. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing innovative solutions through trusted customer relationships. For more information, visit www.curtisswright.com.

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