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Curtiss-Wright's Fastest Airborne High-Speed Data Recorder Captures and Stores Up to 180 TB of Flight Test Data Captures at 10 Gigabit Ethernet Rates

New HSDR-2512 records up to 3 hours of flight test data

ASHBURN, Va. – December 19, 2024 – Curtiss-Wright's Defense Solutions Division today announced a new high-speed, high-capacity Ethernet data recorder designed for use in demanding flight test programs. The HSDR-2512 captures up to 180 TB of flight test data for a 3-hour total recording time. Today's flight test engineers must handle vast amounts of critical data from increasingly high-speed data acquisition units (DAU) and avionics buses. The HSDR-2512 recorder, Curtiss-Wright's fastest airborne flight test recorder to date, supports full line-rate data capture on its twelve (12) 10 Gigabit Ethernet (GbE) inputs to deliver 16.5 Gigabytes per second (GBps) write speed. To ensure optimal performance in the harsh conditions typical of airborne flight tests, the unit uses PAO (liquid) cooling. This cost-effective intelligent, network-based IP packet recorder is designed for use with aerospace flight test data. It can be used standalone or as part of a complete Curtiss-Wright flight test instrumentation (FTI) system solution.

"The ability to record data at extremely high speeds is emerging as a critical requirement for flight test and monitoring programs," said Brian Perry, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions Division. "To meet this growing need, Curtiss-Wright developed our fastest and highest capacity airborne flight recorder yet, the HSDR-2512, which combines a data

interface unit and storage unit in a single low-size, weight and power, rugged solution. This extremely fast recorder, our first flight test recorder to break the 100 Gbps data barrier, is the industry's only solution for capturing 180 TB of data at 10 GbE speeds."

The HSDR-2512-1 is comprised of an hREC-1000-2 recorder unit and an hREM-1000-2 memory storage unit. The hREM-1000-2 houses two hRMM-1090-X removable media modules, which together provide 180 TB of storage.

Flight test input data is received over the hREC-1000-2 optical input ports via a Curtiss-Wright Fiber Optic Switch (FOSW-2560-1), which provides 24 fiber optic inputs and allows the selection of up to 15 fiber optic outputs to route to the hREM media unit. The hREC-1000-2 is installed on the test platform in a location closest to the FOSW-2560-1 fiber optic data source to minimize cable data loss, while the hREM-1000-2 memory storage unit can be installed in an easily accessible location to ease removal of the hRMM modules post-mission.

With a flexible recorder architecture configurable for a wide range of application requirements, the HSDR-2512's front-end interfaces can be modified to meet unique requirements. For example, the unit's twelve 10 GbE interfaces could be replaced with three (3) 40 GbE inputs.

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

About Curtiss-Wright Corporation

Curtiss-Wright Corporation 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. Headquartered in Davidson, North Carolina, the company leverages 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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