NEWS RELEASE

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Curtiss-Wright Doubles the Storage Capacity of its NSA CSfC Components List Approved DTS1 Storage Device to 8TB

Industry's first COTS data-at-rest storage solution with two layers of full disk encryption (FDE) in a single device doubles removable SSD storage capacity from 4TB to 8TB

ASHBURN, Va. – September 21, 2020 – Curtiss-Wright's Defense Solutions division, a trusted leading supplier of rugged data storage and protection solutions, announced that it has doubled the maximum storage capacity of the Removable Memory Cartridge (RMC) used in its Data Transport System (DTS1) Network Attached Storage (NAS) device from 4TB to 8TB. With the increased storage capacity the NSA Commercial Solutions for Classified (CSfC) Components List approved DTS1 can now support far longer missions for storing classified data on manned and unmanned vehicles. The DTS1, the embedded industry's first commercial off-the-shelf (COTS) data-at-rest (DAR) storage solution to support two layers of full disk encryption (FDE) in a single device, is the only Common Criteria-certified NAS solution approved by the NSA and approved by NATO with two certified encryption layers. Curtiss-Wright recently announced the addition of support for a MIL-STD-1275 compliant filter on the DTS1 to mitigate against high voltage spikes, long voltage surges, and ripples that can reduce performance and reliability. Compliance with MIL-STD-1275 ensures system integrators that in addition to airborne applications, the DTS1 can also be dependably deployed in land vehicle applications.

"Curtiss-Wright is committed to leading the industry in designing advanced rugged data storage solutions for deployed aerospace and defense applications," said Lynn Bamford, President, Defense and Power. "We continually improve and enhance the functionality of our unmatched data-at-rest products. Doubling the storage capacity of our popular DTS1 enables its use in longer duration missions, enabling the secure collection of far greater amounts of classified data."

About the RMC Storage Cartridge

The RMC is a direct attached storage device specifically designed for rugged, deployed applications. Small enough to fit a shirt or flight suit pocket, the RMC is ideal for data transport. With its 100,000 insertion cycle connector, the RMC was designed to withstand years of insertion and removal for data storage and transport. Based on industry standard 2.5" SATA Solid State Drives (SSD), the RMC is scalable from 256 GB to 8 TB today, but can adapt to new SSDs in the future. The cartridge's MIL QPL connector is non-proprietary, with mating connectors readily available.

The RMC's 2.5" SATA drive can support a wide variety of SSD types and capacities. For large storage applications, MLC NAND Flash SSDs can provide up to 8 TB in a single RMC. Alternatively, an empty RMC can be purchased with an SSD of the customer's choice. This could include SSDs certified to encryption standards required to meet a program's specific requirements. For lab or other benign applications, cost-effective MLC NAND Flash SSDs can be used.

About the DTS1 Two Layer Encryption Approach

The DTS1 uniquely incorporates two distinct layers of AES 256-bit encryption into one device, making protection of Top Secret data more cost effective and low risk than traditional NSA Type 1 device development. Both the hardware and software FDE layers have been individually evaluated and certified against two Common Criteria protection profiles: (1) collaborative Protection Profile for Full Disk Encryption – Encryption Engine; (2) collaborative Protection Profile for Full Disk Encryption – Authorization Acquisition.

About the DTS1

The very small DTS1 NAS device, which weighs only 3.77 lb. (1.71 kg) and measures only 1.5 x 5.0 x 6.5" (38.1 x 127 x 165.1 mm), delivers up to 8 TB of solid state storage (SSD) with two layers of certified encryption. It supports PXE protocol so that network clients on a vehicle or aircraft can quickly boot from the encrypted files on the DTS1's removable memory cartridge (RMC). This approach both facilitates software updates for network clients and significantly reduces SWaP by eliminating the need for individual hard disks in each network client. Curtiss-Wright offers two layers of encryption in two mounting options of the DTS1, the VS-DTS1SL-FD, which is designed for cockpit use with DZUS mounting panel, and the VS-DTS1SL-F, which uses L-brackets to support very flexible mounting within space-constrained platforms.

The DTS1 enables any network-enabled device to retrieve stored data or save new captured data. Networked devices using heterogeneous operating systems (Linux®, VxWorks®, Windows®, etc.) that support industry standard NAS protocols (i.e., NFS, CIFS, FTP, or HTTP) can store data on and retrieve data from the DTS1. The DTS1 also supports iSCSI protocol for block data storage and PCAP protocol for Ethernet packet capture.

The Common Criteria Advantage

The DTS1 has been evaluated against a common set of international standards, enabling system designers in Common Criteria Recognition Agreement (CCRA) member countries in Europe, Middle East, North America, and Asia, and the 29 NATO states, to confidently, without requiring further evaluation, select the device to greatly reduce the development time of their deployed encryption solution. The rugged small form-factor DTS1 NAS device is designed to store and protect large amounts of data on helicopters, fighters, unmanned aerial vehicles (UAV), unmanned underwater vehicles (UUV), unmanned ground vehicles (UGV), and intelligence surveillance reconnaissance (ISR) aircraft that require the protection of sensitive DAR to international standards.

Complete Embedded System Solutions

The DTS1 is designed for rugged applications that require the storage, removal, and transport of critical data such as cockpit data (mission, map, maintenance), ISR (camera, I&Q, sensors), mobile applications (ground radar, ground mobile, airborne ISR pods), heavy industrial (steel, refinery), and video/audio data collection (flight test instrumentation). The device can be easily and quickly integrated into a complete rugged deployed system based on Curtiss-Wright's broad range of open architecture single board computers and DSP modules, as well as fully integrated mission computers, sensor management systems, and network switches.

Sales inquiries: Please forward all Sales and reader service inquiries to ds@curtisswright.com.

For more information about the Curtiss-Wrights Defense Solutions division, please visit www.curtisswrightds.com.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation is a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of

providing reliable solutions through trusted customer relationships. The company is headquartered in Davidson, N.C. and employs approximately 8,900 people worldwide. For more information, visit www.curtisswright.com.

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