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NEWS RELEASE

RUGGED COTS-BASED UAV SUBSYSTEM SOLUTIONS DISPLAYED BY CURTISS-WRIGHT AT UNMANNED SYSTEMS 2015

AUVSI UNMANNED SYSTEMS 2015 (Booth #2649), ATLANTA, Ga. – May 4-7, 2015 – Curtiss-Wright Corporation (NYSE: CW) today announced that its Defense Solution division will display its latest rugged size, weight and power (SWaP) optimized commercial-off-the-shelf (COTS) processing and networking solutions for use on unmanned aerial vehicles at AUVSI's Unmanned Systems 2015 **(Booth #2649),** the largest unmanned platform exposition in the U.S. The broad range of mission critical solutions displayed will include:

- Rugged mission computers
- Data acquisition avionics
- Network routers and switches
- High speed/high capacity data recording and storage products

Featured products for UAVs on display in the Curtiss-Wright booth:

Mission Computers and Network Switches:

- **Parvus DuraNET® 20-11 Ultra-Small Form Factor (USFF) Gigabit Ethernet Switch:** Ideal for deployment on SWaP sensitive UAVs, the DuraNET 20-11 weighs just 0.50 lbs. and consumes less than 8.0 Watts of power, yet provides true carrier-grade Ethernet software Level-2+ management features including support for IEEE-1588v2 Precision Timing Protocol (PTP). Able to perform optimally in the harshest conditions, this rugged Line Replaceable Unit (LRU) is designed to meet MIL-STD-704F, MIL-STD-1275D, MIL-STD-461F, and RTCA/DO-160 for civil and military use. The compact subsystem is fully sealed, has no moving parts, and supports extended temperature operation (-40 to +85C) with resistance to high shock/vibration, humidity, altitude, and dust/water ingress.

- **Parvus DuraNET 20-10 Gigabit Ethernet Switch**: For UAVs that need more Ethernet channels, this GbE Switch Line Replaceable Unit (LRU) subsystem delivers double the port count of Curtiss-Wright's previous DuraNET GbE Switch products, while drastically reducing power consumption ~50% per port and reducing the unit's volume size by ~26%. Ideal for adding high speed networking to platforms such as legacy and new

naval aircraft, the fully featured SWaP-optimized subsystem provides true carrier-grade Ethernet software Layer-2 management features, including support for the IEEE-1588 Precision Timing Protocol (PTP).

- **Parvus DuraMAR® 5915 Rugged IP Router**: Bringing Cisco® IOS-managed mobile routing to UAVs, this rugged LRU is integrated with Cisco's 5915 Embedded Services Router (ESR) card in an ultra-rugged chassis optimized for harsh unmanned vehicle installations. This COTS solution is ideal for IP networking technology refresh and situational awareness applications, including those seeking a migration path for previous generation Parvus rugged networking subsystems deployed in unmanned surface vehicles. It features dual WAN uplinks and is available as either a standalone 5-port network router or with an integrated Gigabit Ethernet switch for a total of 19 Ethernet ports.

- **Parvus DuraCOR 80-40 Rugged Mission Computer:** The DuraCOR 80-40 is a rugged COTS tactical mission computer LRU subsystem based on the 2nd Gen Intel Core i7 ("Sandy Bridge") processor with a high-speed, stackable PCI-Express bus (PCIe/104) architecture for I/O card expansion. Optimally designed for SWaP-sensitive UAV applications, the DuraCOR 80-40 combines powerful graphics and multi-core processing. Its ultra-reliable mechanical robustness and modular I/O expansion deliver extreme environmental and EMI performance per MIL-STD-810G (thermal, shock, vibration, dust, water, humidity) and MIL-STD-461F.

- **MPMC-9351 3U 5-slot Mission Computer**: The MPMC-9351 is a rugged integrated system solution that accommodates the highest power 3U cards within a 5-slot, forced-air enclosure. Circuit cards installed in the system enclosure are isolated from external environmental conditions such as humidity, dust and sand. Flight-ready, this system has been designed to meet or exceed the DO-160F Environmental Conditions for Airborne Equipment and is capable of passing numerous environmental tests including shock, vibration, temperature, altitude, fluid susceptibility, voltage spikes, electrostatic discharge and more.

Rugged Deployed Storage Solutions

- **Data Transport System (DTS):** To store and protect sensitive UAV sensor data, the DTS Network Attached Storage (NAS) system is a SWaP-optimized, rugged network file server that supports industry-standard storage protocols (NFS, CIFS, HTTP and FTP) through four (4) 1 GbE ports. With PXE protocol support, the DTS can provide boot files to network clients. To protect critical data-at-rest, the DTS system offers AES256 encryption. The three (3) rugged Removable Memory Cartridges (RMC) can store video, audio, and mission data for later analysis. The Ethernet record feature allows the DTS to act as a sniffer capturing every packet for post-mission analysis by WireShark®.

Data Acquisition Avionics products will include:

- **Acra KAM-500 Data Acquisition System**: The popular Acra KAM-500 airborne data acquisition unit (DAU) brings the advantages of the COTS design approach to UAV Flight Test, Structural Health and Flight Data Monitoring applications. This rugged DAU is driven by hardwired finite state machines, making it extremely reliable. Thanks to its modular construction, the KAM-500 reduces cost of ownership. Its compact size and network native design, the KAM-500 is ideal for installing in restricted spaces and for reducing weight on unmanned vehicles.

For additional information on Curtiss-Wright Defense Solutions products, please visit http://www.curtisswrightds.com/.

About Curtiss-Wright Corporation
Curtiss-Wright Corporation (NYSE:CW) 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 employs approximately 9,000 people worldwide. For more information, visit www.curtisswright.com.

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