



## NEWS RELEASE

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### **Curtiss-Wright Ships Miniature Network Data Acquisition System for NASA's Orion Spacecraft Program**

*Curtiss-Wright's MnACQ-2000 stackable networked encoding units support next  
generation low-Earth orbit spacecraft*

**33<sup>RD</sup> SPACE SYMPOSIUM – Colorado Springs, Co. – April 3, 2017 -- [Curtiss-Wright's Defense Solutions division](#)** today announced that it has successfully delivered eight of the nine data acquisition flight units that it is building for use on NASA's Orion Multi-purpose Crew Vehicle that is planned for use in Exploration Mission 1 (EM1), the spacecraft's first launch. Curtiss-Wright is one of only a handful of suppliers that provide electronic subsystems to both the Orion capsule and Space Launch System (SLS) launch vehicle programs. The Orion spacecraft is designed to take astronauts beyond low-Earth orbit and, eventually, to destinations such as Mars, on future missions. To support these missions, NASA is developing the SLS to provide Orion with the capability to carry astronauts farther into the solar system than ever before.

For the Orion EM1 launch, Curtiss-Wright supplies the [MnACQ-2000 Miniature Network Data Acquisition Systems](#), a compact, stackable Fast Ethernet 100BASE-T-based networked encoding unit that processes and delivers packetized data to designated network nodes. Each of the nine rugged COTS-based units being built for Orion EM1 includes a power supply, system management overhead and the specific I/O modules needed to address the number and type of measurements needed during flight. Curtiss-Wright expects to deliver the ninth and final MnACQ-2000 by the end of June 2017. In addition to providing network switches to support the MnACQ-2000 flight units, Curtiss-Wright also provides eight [Pulse Code Modulation \(PCM\)-based CDAU units](#) that are designed for use on the SLS Launch Vehicle. All eight CDAUs for

Exploration Mission 1 (EM1) have been delivered to NASA Glenn Research Center as well as four of eight EM2 CDAUs to be used as backups for EM1. Curtiss-Wright began shipments of the MnACQ-2000 units to Lockheed Martin, the prime contractor building the Orion spacecraft and conducting the flight for NASA, early last year for use on an engineering model of the Orion EM1 that was built to enable testing of all of the platform software and the integrated Orion capsule.

“Curtiss-Wright is very proud to provide our rugged space qualified data acquisition and network technologies to both the Orion spacecraft and the SLS launch vehicle,” said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division.

For more information on Curtiss-Wright’s experience in space programs, please visit [www.curtisswrightds.com/space](http://www.curtisswrightds.com/space).

### **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 employs approximately 8,000 people worldwide. For more information, visit [www.curtisswright.com](http://www.curtisswright.com).

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