



NEWS RELEASE

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Contact: John Wranovics
M: 925.640.6402
jwranovics@curtisswright.com

Curtiss-Wright Adds Overhead Module for use in Axon™ ADAU Data Acquisition Systems for Flight Test Instrumentation

New ABCU-402A ADAU Overhead module - PTPv1/v2 client or Grandmaster, dual Ethernet output, DARv3 and IRIG-106 Chapter 10 packet formats

ASHBURN, Va. – November 18, 2019 – Curtiss-Wright's Defense Solutions division today announced that its Aerospace Instrumentation (AI) group, a trusted leading supplier of [flight test instrumentation \(FTI\) system solutions](#), has expanded the capabilities of its [Axon™ data acquisition unit \(DAU\)](#) with the addition of a new overhead module. The [ABCU-402A is a dual-port full-duplex Gigabit Ethernet ADAU overhead module](#) that functions as a packet programmer and an IPv4 data packet transmitter. The module is designed for use with the recently introduced Axon ADAU family of FTI data acquisition systems.

About the ABCU-402A

The ADAU overhead module supports chassis programming via Ethernet using the Trivial File Transfer Protocol (TFTP). Synchronization with an external PTP Grandmaster is achieved using IEEE 1588-2004 Precision Time Protocol version 1 or 2 (PTPv1 or PTPv2). The ABCU-402A can also act as a PTPv1 or PTPv2 Grandmaster. In acquisition mode, some or all acquired data is transferred from the backplane to the current value table (CVT). Onboard, the data is packetized into a DARv3 or IRIG-106 Ch.10 application layer packet. Assembled packets are transmitted simultaneously on both Ethernet outputs. For asynchronous bus data, the ABCU-402A supports aperiodic transmission to ensure efficient bandwidth use. In that case, packets are not generated unless fresh data has been acquired from a packetizer user-module.

The ABCU-402A can route Ethernet frames received from either of its Ethernet ports to modules in the Axon ADAU chassis. This feature allows Ethernet packets to be sent directly to a recorder or to a PCM transmitter module (among other modules).

ABCU-402A Performance Features:

- Dual-port bi-directional, full-duplex, Gigabit Ethernet connection with auto-sensing DARv3 and IRIG-106 Ch.10 packetization structures
- Synchronization using PTPv1 or PTPv2, or acts as PTPv1 or PTPv2 Grandmaster
- Programming and verification of ADAU chassis using TFTP
- In system programmability of firmware and FPGA
- Supports Gigabit link with ADAU user modules and 380 Mbps data throughput to external Ethernet connections

The Benefits of Complete DAU System Solutions

Axon systems are easy to integrate and expand. Multiple Axon modules can be integrated into a single Axon chassis. The Axon chassis, Axon user modules, and Axonite remote housing are designed to work with Curtiss-Wright's TTC nDAU, TTC MnACQ, TTC MnHSD and KAM-500 DAU family of products, including high-speed cameras, data recorders, and switches. Axon DAUs provide the most powerful and modern solution on the market by combining unprecedented flexibility with outstanding reliability for demanding applications. Axon modules and chassis, now available in 6, 9, and 16-slot configurations, enable FTI engineers to quickly configure and deploy the vast amounts of data acquisition required to support demanding flight test, missile test, and space developmental/operation flight instrumentation programs. Axon systems are ideal for use in flight test, system monitoring, power system upgrades, or life extension programs.

About the Curtiss-Wright Aerospace Instrumentation Group

In 2017, Curtiss-Wright integrated its Dublin (Ireland) business unit (formally Acra Control Ltd.) with its Newtown (Pennsylvania, USA) business unit (formally Teletronics Technology Corporation), to form Aerospace Instrumentation. This integration created the industry's broadest and most experienced single source for customers of commercial and defense aerospace instrumentation system solutions. With the merger of the two business units, Curtiss-Wright now supports more aerospace flight test customers, platforms, and programs than any other competitor around the world. What's more, with its increased resources and global reach, the company is able to

significantly expand the availability of its unmatched quality and customer support, while bringing even larger system-level solutions to market.

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 employs approximately 9,000 people worldwide. For more information, visit www.curtisswright.com.

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