



NEWS RELEASE

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Curtiss-Wright Expands Industry Leading Axon™ DAU for Flight Test with 24 Channel Differential Ended ADC Module

New AXN/ADC/405 Module brings highly accurate analog-to-digital conversion of differential ended analog channels to Axon DAUs

ASHBURN, Va. – August 1, 2019 – Curtiss-Wright's Defense Solutions division today announced that its Aerospace, Electronics & Motion Control business unit, a [leading supplier of flight test instrumentation \(FTI\) system solutions](#), has introduced a new module that further expands the capabilities of its industry-leading innovative [Axon™ data acquisition unit \(DAU\)](#). The [AXN/ADC/405 Differential Ended ADC Module](#) can condition and digitize up to 24 analog differential ended channels in a single module. It also supports single ended configurations by enabling programmable pull-down resistors on any of the negative inputs. The module is designed for demanding FTI applications that require accurate differential voltage measurement.

AXN/ADC/405 Performance Features

- 24 differential ended input channels
- Ordering input range from ± 100 mV to ± 40 V
- High accuracy (0.01% FSR typical)
- High input resistance (>1 M Ω) when on/off for /100M, /1V, and /10V variants
- 16-bit simultaneous sampling with three configurable output streams on each channel
- User defined linearization and compensation for errors in the entire measurement chain

About the AXN/ADC/405 Module

The AXN/ADC/405 features a hard-wired state-machine that oversamples each of its 24 channels at a rate between 40 ksps and 80 ksps, and digitally filters any noise above the user-programmable

cutoff frequency. The module provides three independently configurable output streams per channel, enabling the FTI test engineer to select different sample rate, cutoff, and filter type for each output stream. All signals are sampled simultaneously. When several channels are sampled at different sampling rates all channels are aligned at the start of an acquisition cycle.

About the Axon DAU

Curtiss-Wright's commercial-off-the-shelf (COTS) Axon DAU is one of the industry's fastest, most compact and flexible data acquisition systems (DAS). It has outstanding reliability for demanding applications and enables flight test engineers to quickly develop, install and scale a robust data collection solution for FTI that easily adapts to evolving requirements. With a 1 Gbps Ethernet link dedicated to each data acquisition module, Axon can currently deliver a throughput of 380 Mbps. It features increased integration flexibility through the use of unique Axonite™ remote mountable modules (10m link distance). It also uniquely supports iNET, DARV3, Chap 10, iNET-X and IENA.

Axon Quick Start Kit Option

Curtiss-Wright also offers an [Axon Quick Start Kit \(QSK\)](#). The Axon QSK (AXN/QSK/001) enables FTI engineers to rapidly familiarize themselves with the DAU, as it includes everything needed in the supplied flight case. The QSK is also 100% usable in a full flight test campaign and can be augmented with more modules, Axon chassis, or other DAUs from Curtiss-Wright. The Axon QSK lets FTI engineers easily familiarize themselves with our innovative new Axon data acquisition platform. With its miniature size and unprecedented flexible installation options, Axon lets FTI engineers lower the weight of equipment and wiring, gather more data, and meet demanding time schedules while ensuring that none of their critical data is lost during flight test. Available at a one-time only introductory cost, the Axon QSK makes it easier for FTI engineers to discover for themselves why Axon represents the future of flight test, missile and aircraft monitoring applications.

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 family of DAS products, including DAUs, 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. They are also low power, meaning their compact form factor is not compromised with bulky heatsinks when deployed. 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.

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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