

# AIR TAXI AVIONICS AND INSTRUMENTATION SOLUTIONS

**CURTISS-  
WRIGHT**

CURTISSWRIGHTDS.COM



**TRUSTED  
PROVEN  
LEADER**



# ABOUT CURTISS-WRIGHT

Curtiss-Wright Defense Solutions, a division of Curtiss-Wright, is an industry-leading supplier of sophisticated electronics products that have been trusted by defense departments, commercial avionics companies, and system integrators around the world to ensure success for more than 80 years. We are proud to maintain and further our long and historic tradition of innovation that honors the legacy of the company's founders, the Wright brothers and Glenn Curtiss.

Curtiss-Wright continues to lead the way in developing and bringing to market new advanced solutions that address the rapidly evolving requirements of aerospace systems and applications. We play a key industry role in the establishment of resources and services to ensure that our customers have access to the long lifecycle support required by aerospace programs. As well, Curtiss-Wright offers comprehensive approaches for mitigating obsolescence, blocking the use of counterfeit parts, and developing product roadmaps to ease the integration of future generations of technologies.

## Deploy Trusted Solutions

Leverage Curtiss-Wright's decades of expertise and experience on compact aerial vehicles

## Lower Costs

Meet program requirements with commercially designed technology at a fraction of the cost of a custom solution

## Minimize risk

Choose from a broad selection of field-proven hardware with DO-160G qualifications, as well as safety-certifiable modules and systems with artifacts required for DO-254/178C certification

## Speed Deployment

Accelerate your time to market with ready-to-deploy solutions built rugged from the ground up

## Block Cybersecurity Threats

Mitigate cyber risks with the latest Trusted Computing capabilities


## Mitigate Obsolescence

Protect your investment with comprehensive lifecycle support

Curtiss-Wright is trusted as a leading provider of airborne technology to manned and unmanned aircraft around the globe.



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*We're really pleased with the exceptional level of support Curtiss-Wright has provided to Lilium, as we seek to change the face of modern air travel. They have gone the extra mile on several occasions and we appreciate the support they provided during the development.*

*Leandro Bigarella, Head of Flight Test*

## Application Areas

- + Flight control
- + Air data computing
- + Situational awareness
- + Image display and processing
- + Terrain awareness and warning
- + Crash protected flight recording
- + Battery and propulsion monitoring
- + Flight and production testing
- + Aircraft monitoring and sustainment

# PRODUCT SOLUTIONS

Flight Test  
Instrumentation

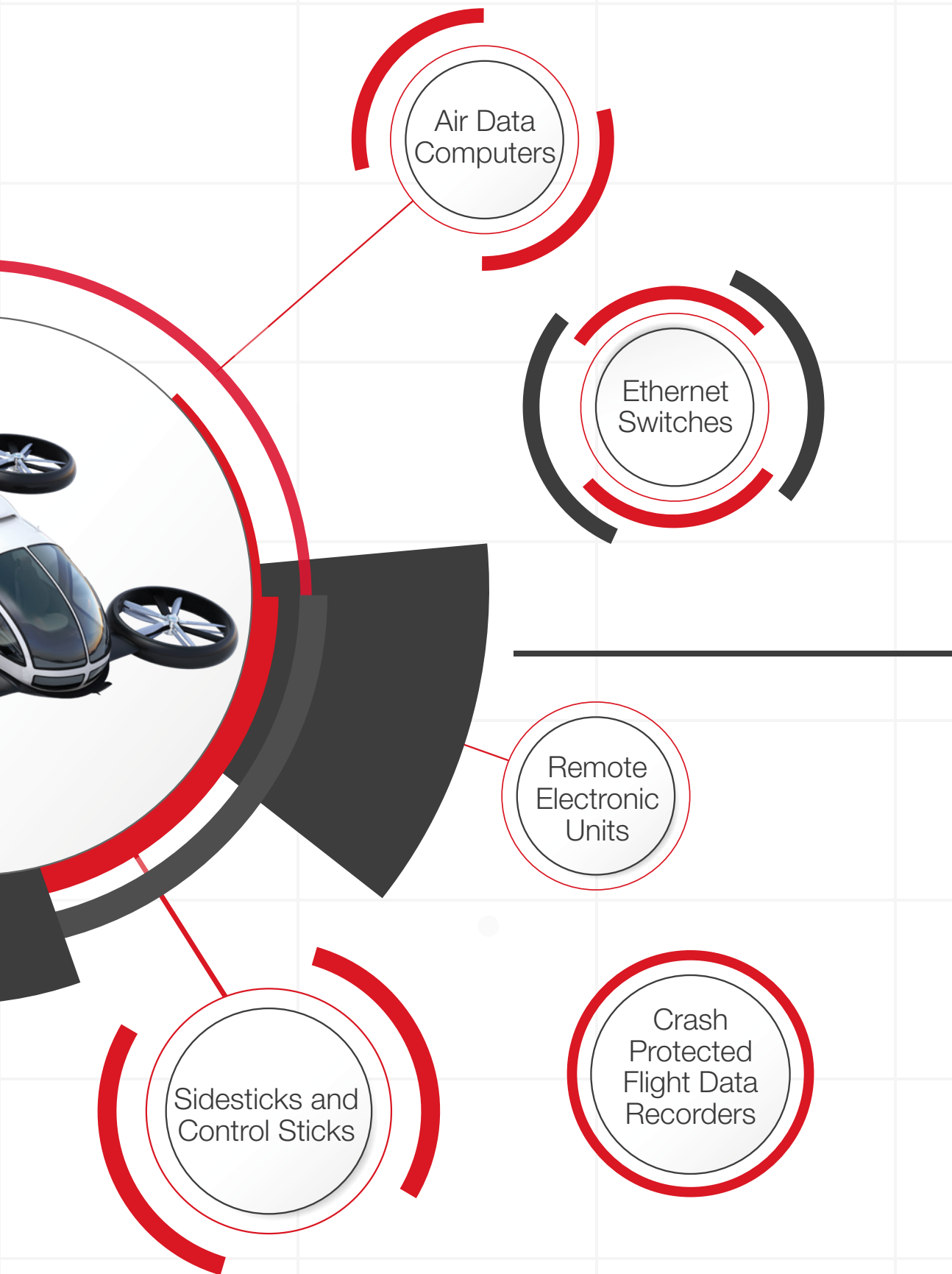
Low Air  
Speed  
Probes

Flight Displays  
and Graphics  
Processor  
Systems

Detect  
and Avoid  
Systems



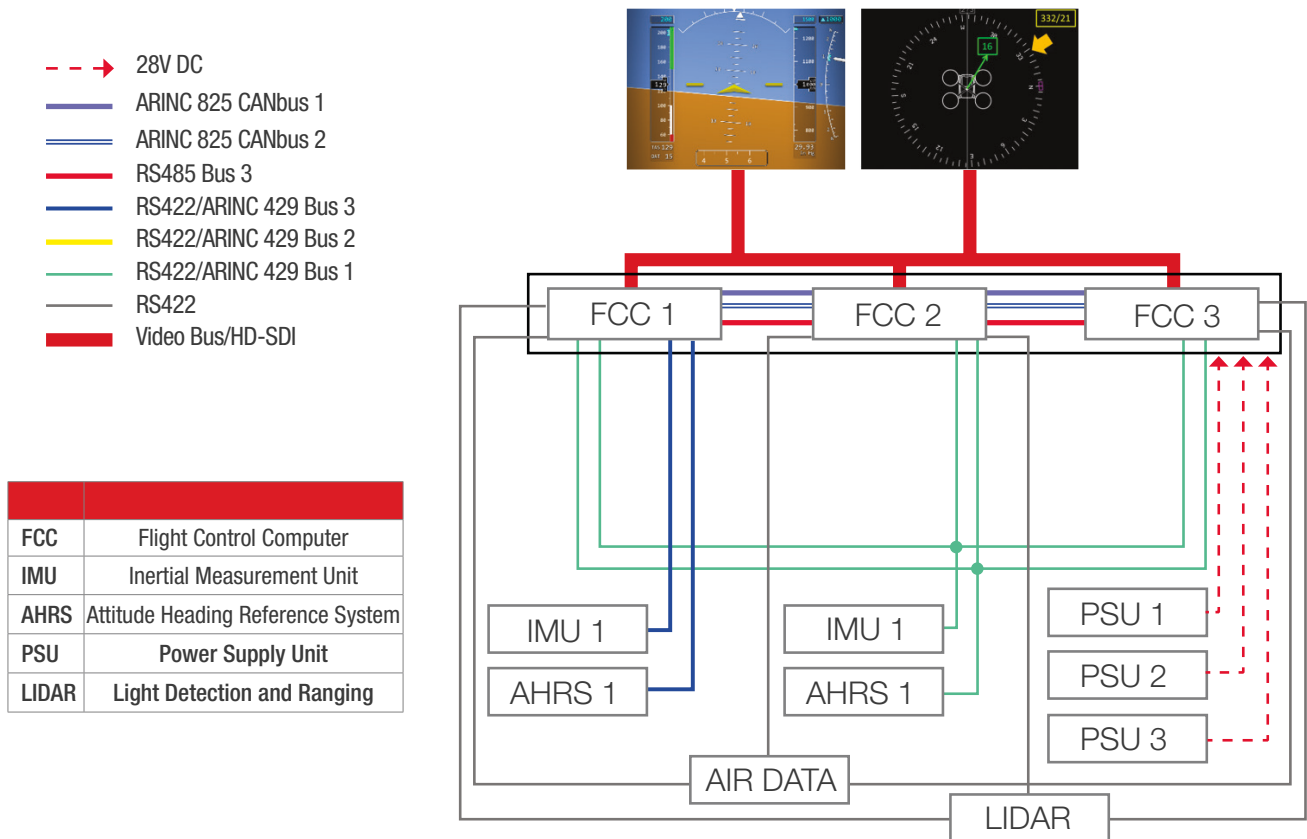
# FROM THE LEADER IN AEROSPACE SYSTEMS



# COMPUTING AND VIDEO / GRAPHICS PROCESSING

Curtiss-Wright offers a broad selection of computing systems and modules for space-constrained processing applications in manned and unmanned aircraft, such as flight control computers, terrain awareness and warning systems (TAWs), air data computers, and detect and avoid (DAA) systems. Designed to deliver high-performance processing in the demanding conditions encountered by UAVs, Curtiss-Wright computing systems and modules are extensively tested to perform reliability in harsh environments.

As well, Curtiss-Wright's family of graphics, video capture, and general-purpose graphics processing unit (GPGPU) modules are specifically designed for providing human-machine interfaces (HMI) where graphics and sensor imagery must be combined. Ideal for a wide range of graphics and video functions, our modules have been field-proven in the most advanced rugged, deployed applications, such as 3D terrain mapping and a variety of command and control applications.



## Overcoming Certification Challenges

Designing avionics to FAA specifications is a complex undertaking requiring significant development time and engineering effort – not to mention the associated costs. And, for system designers without extensive DO-254 / DO-178 experience, there is a large risk that the end result will not meet certification requirements.

To bring safety-critical systems to market faster and at lower cost, Curtiss-Wright offers the industry's broadest selection of modules commercially designed from the ground up for DO-254. Each board is developed leveraging years of DO-254 experience and delivered with a full artifacts package to meet the key deliverables for certification. And, to kick-start testing and development, Curtiss-Wright offers a ready-to-deploy avionics processing system that allows integrators to begin testing immediately and later customize the system once requirements are completely defined.

## AIR DATA COMPUTING AND LOW SPEED PROBES

Curtiss-Wright has designed and manufactured safety-critical air data computers (ADC) for decades. Our ADCs meet high air data accuracy/stability needs. They also address rotorcraft specific challenges with accurate low drift sensors and low size, weight and power (SWaP) solutions to rotor downwash and diverse fleet logistics requirements. Curtiss-Wright is also field testing new low air speed probes which provide reliable low air speed data.

## FLIGHT TEST INSTRUMENTATION

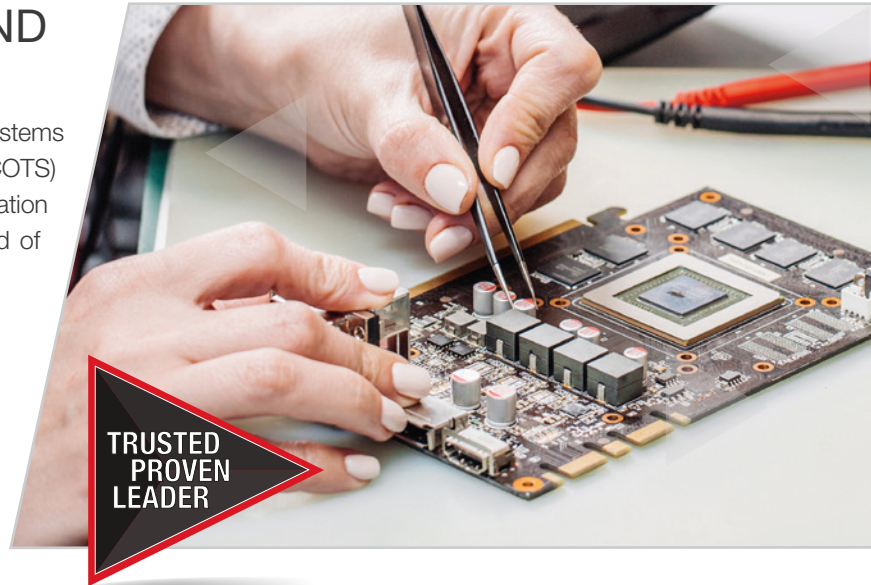
Curtiss-Wright is the proven global leader for supplying flight test programs with reliable and flexible instrumentation. We specialize in lowering risk, easing installation challenges, and providing complete end-to-end solutions.

## AIRCRAFT MONITORING AND SUSTAINMENT

Curtiss-Wright supplies complete usage monitoring systems based on modular, commercial off-the-shelf (COTS) hardware, helping fleet managers to remove implementation delays and achieve return on investment years ahead of schedule.

## NETWORKING AND SWITCHING

Curtiss-Wright's rugged networking cards and systems enable cost-effective deployment of secure, reliable networks on board aircraft.



## COCKPIT VOICE RECORDERS/FLIGHT DATA RECORDERS

Curtiss-Wright manufactures a range of "Fortress" recorders designed to meet all future anticipated regulations. Fortress has a modular architecture that helps it rapidly accommodate custom interfaces quickly with lower cost and risk. It is also the world's first ETSO certified 25 hour Cockpit Voice Recorder to meet the January 2021 mandate, is fully ED-112a compliant, and is compact and lightweight.

## REMOTE ELECTRONIC UNITS

Curtiss-Wright can help address the expensive bespoke costs and risk-enhancing tight deadlines commonly associated with remote electronic units, used for applications such as data concentration, utility management, and system monitoring, with rapid prototyping, low NRE, and low quantity production capabilities.

## SIDESTICKS AND CONTROL STICKS

Curtiss-Wright has developed sidesticks and control sticks to meet the high demands of the military sector while providing reliability and optimal user comfort.

## VIDEO MANAGEMENT SOLUTIONS

Curtiss-Wright's rugged, SWaP-optimized video switches and format converters enable camera and video system interoperability while lowering weight and reducing system complexity.



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