

Defense and Aerospace Solutions

**CURTISS -
WRIGHT**

CURTISSWRIGHTDS.COM



AIR



LAND



SEA



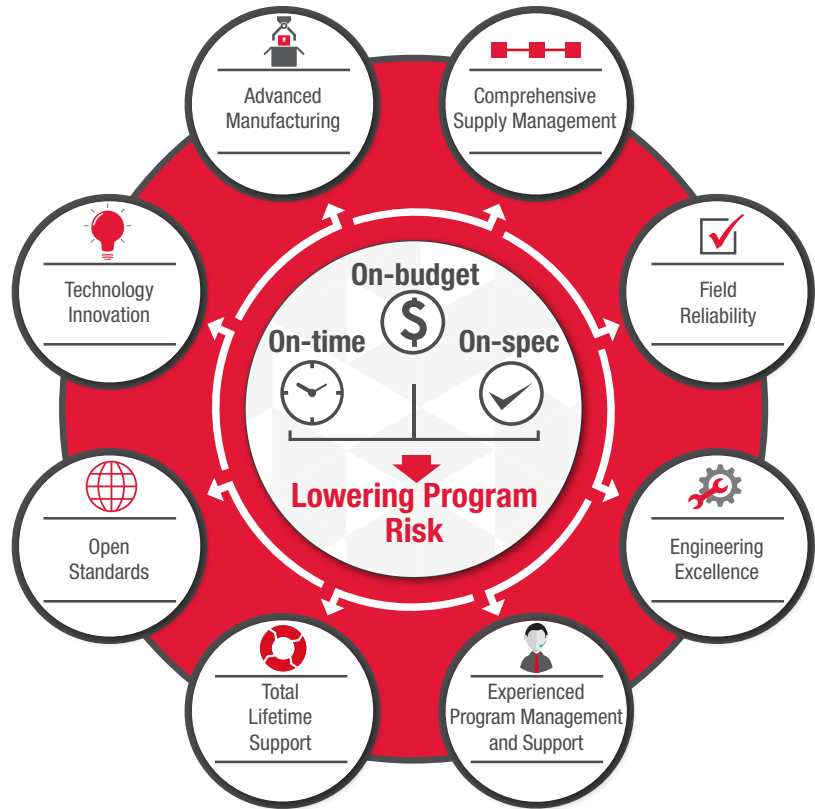


PARTNER WITH A MODULAR OPEN SYSTEMS APPROACH LEADER

Curtiss-Wright Defense Solutions, a division of Curtiss-Wright Corporation, is recognized around the world as one of the most innovative designers and manufacturers of rugged, secure, mission-critical solutions using modular open systems approaches (MOSA) for the defense and aerospace industries.

- ▶ Smaller, by putting more technology, capabilities, and power into less space
- ▶ Stronger, by reducing the potential for environmental, hardware, software, and other vulnerabilities
- ▶ Smarter, by optimizing technologies ranging from power management to compute power and data management
- ▶ Faster, by improving the ability to respond to threats in real-time & streamlining the interface between human & machine

Our focus on quality and innovation is built on more than 80 years of experience engineering and delivering highly reliable, high-performance solutions on a diverse range of platforms for a wide variety of defense and aerospace applications worldwide.



We've significantly reduced program risk for hundreds of customers and thousands of programs by enabling delivery of projects on time, on spec, and on budget. We're trusted by defense departments, commercial avionics companies, and systems integrators worldwide to enable the success of any mission, anywhere, at any time. Their confidence in our commitment and capabilities is the key reason we are recognized globally as the trusted proven leader in defense and commercial aerospace solutions.

TOTAL LIFECYCLE MANAGEMENT™

Protect your investment with our Total LifeCycle Management (TLCM) program that provides critical insights and proactive strategies to:

- ▶ reduce diminishing manufacturing source (DMS) challenges and overall program risk
- ▶ increase program longevity
- ▶ minimize lifecycle management costs





REDUCE PROGRAM RISK, COST, AND TIME TO MARKET

Tap into a broad portfolio of ruggedized commercial off-the-shelf (COTS) cards and subsystems, as well as program-specific solutions, that reduce risks, time, and costs when developing technology for defense and aerospace applications.

Curtiss-Wright Defense Solutions designs and manufactures modular, open standards-based solutions for military and commercial applications, giving you cost and tactical advantages on the ground, in the air, and at sea. We take a holistic approach to solution development, balancing advanced technologies, program requirements, and cost constraints. Our mission is to always deliver solutions on time, on spec, and on budget.

Reliably deploy COTS technology in extreme locations

As part of our commitment to quality, we test products to the highest standards for shock, vibration, and other environmental factors to deliver solutions that can withstand the harshest conditions.

- ▶ Extreme heat and cold
- ▶ Sandy, dusty, and wet environments
- ▶ Rugged terrain
- ▶ High altitudes

Increase safety

Our solutions incorporate safety concepts in every phase of electrical, mechanical, and software development and packaging.

Solutions for ground platforms include detailed reliability documentation, maintenance requirements, and safety considerations to provide insight into scheduling part replacements.

Selected air platform solutions are developed, tested, and audited to DO-160 and various MIL-STD standards. We also offer modules and systems that have been designed to DO-254 requirements, are delivered with artifacts packages for certification, and support DO-178-certifiable software.

Protect against cyber and physical attacks

Our **TrustedCOTS™** products are built with Trusted Computing technologies and techniques incorporated into every aspect of solution development, from design and testing to supply chain and manufacturing. This comprehensive, end-to-end approach creates an effective mesh of protection layers that integrate to ensure reliability of Curtiss-Wright products in the face of attempted compromise.

Technology protection mechanisms combine the hardware capabilities, software algorithms, and operations needed to protect functionality.

Data protection mechanisms safeguard software algorithms, data-at-rest, and data-in-motion.

Parts protection mechanisms safeguard the entire supply chain and all manufacturing processes.

Extend product lifetime through reliable solutions

We provide dependable, error-resistant system operation throughout your solution's lifetime through a variety of best practices.

Testing to the VITA 47 ECC4 level as part of our standard solution evaluation and continuous improvement processes.

Carefully analyzing reliability test results to better understand the physics of failure and improve dependability.

Building one of the most advanced capability sets for lead-free solder in the industry.

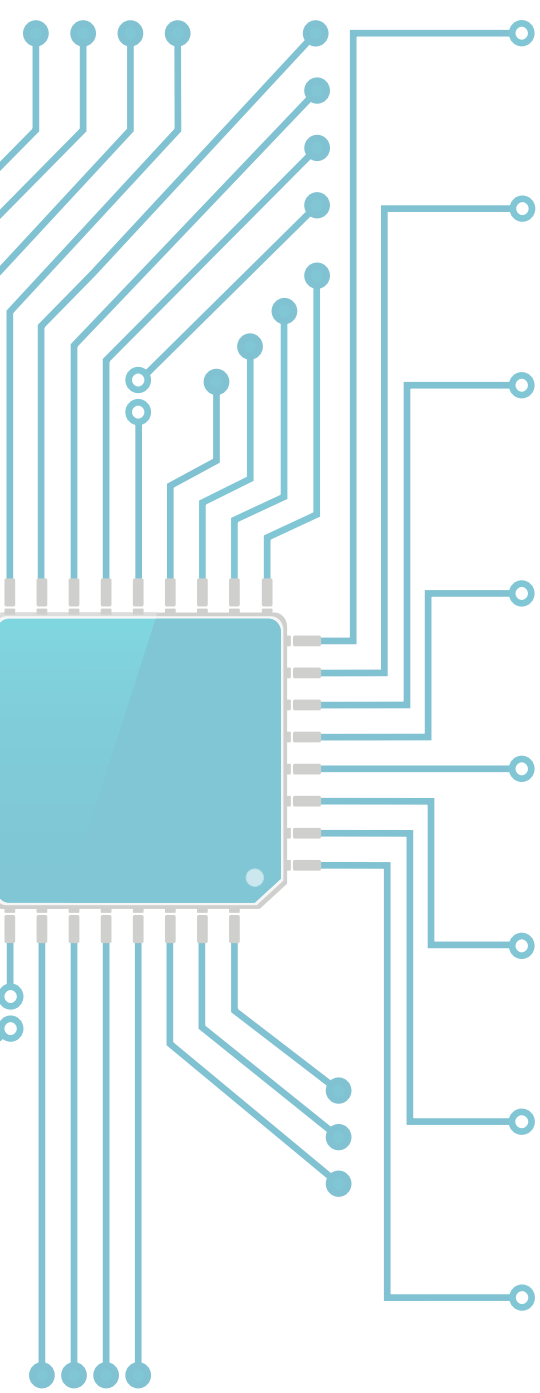
Many of our solutions follow a complete program life cycle predictability chart that minimizes total cost of ownership (TCO) and ensures parts and repair services are available as long as the solution is in the field, enabling you to confidently deploy systems for up to 25 years.

FIELD-PROVEN MODULES

Our field-proven COTS building blocks are relied on to increase application stability and predictability. Our extensive range of ruggedized COTS cards deliver the increased data and signal processing performance, low power, and flexible I/O capability needed for the most rugged military applications:

▶ Mission Computing ▶ Signal Processing ▶ Graphics Processing ▶ Networking ▶ System & Sensing I/O

To meet a variety of program and system requirements, our standards-based COTS cards are available in a variety of form factors, and incorporate the latest high-speed processors from industry leaders, such as Intel®, NXP®, and NVIDIA®.



Single Board Computers (SBCs)

Meet a wide variety of application requirements – including high performance, low power, or specific I/O needs – with a complete family of 3U, 6U, and mezzanine format SBCs featuring Intel, Arm®, and Power Architecture® processors.

Graphics and Video Cards

Eliminate integration challenges and reduce costs with pre-integrated and tested graphics cards and software drivers featuring the latest high-performance graphics processing units (GPUs) and the widest selection of I/O options on the market.

Digital Signal Processing (DSP) Cards

Bring best-in-class, multi-core CPU processing to size, weight, power, and cost (SWaP-C)-constrained platforms with high-performance 3U and 6U DSP cards that are designed for demanding applications, such as radar, sonar, signals intelligence (SIGINT), and image processing.

FPGA and High-Speed I/O Cards

Provide cutting-edge front-end sensor processing with 3U, 6U, and XMC FPGA and I/O cards that incorporate the wideband analog I/O, memory, and DSP capabilities needed in the lab and deployed applications.

Networking Cards

Make secure connections to wide area networks (WANs) and enable embedded fabrics with VPX, PMC, XMC, and VME switching and routing cards that offer a wide variety of physical interfaces and extensive networking features.

I/O and Communications Cards

Deliver optimal performance in extreme conditions while enabling fast and reliable information exchanges among interconnected systems with I/O and communications cards that are designed for real-time, mission-critical systems.

DO-254/178-Certifiable Cards

Accelerate time to market and reduce costs with DO-254-certifiable SBC, video and graphics, and I/O modules, available with artifact kits and DO-178 board support packages (BSPs).



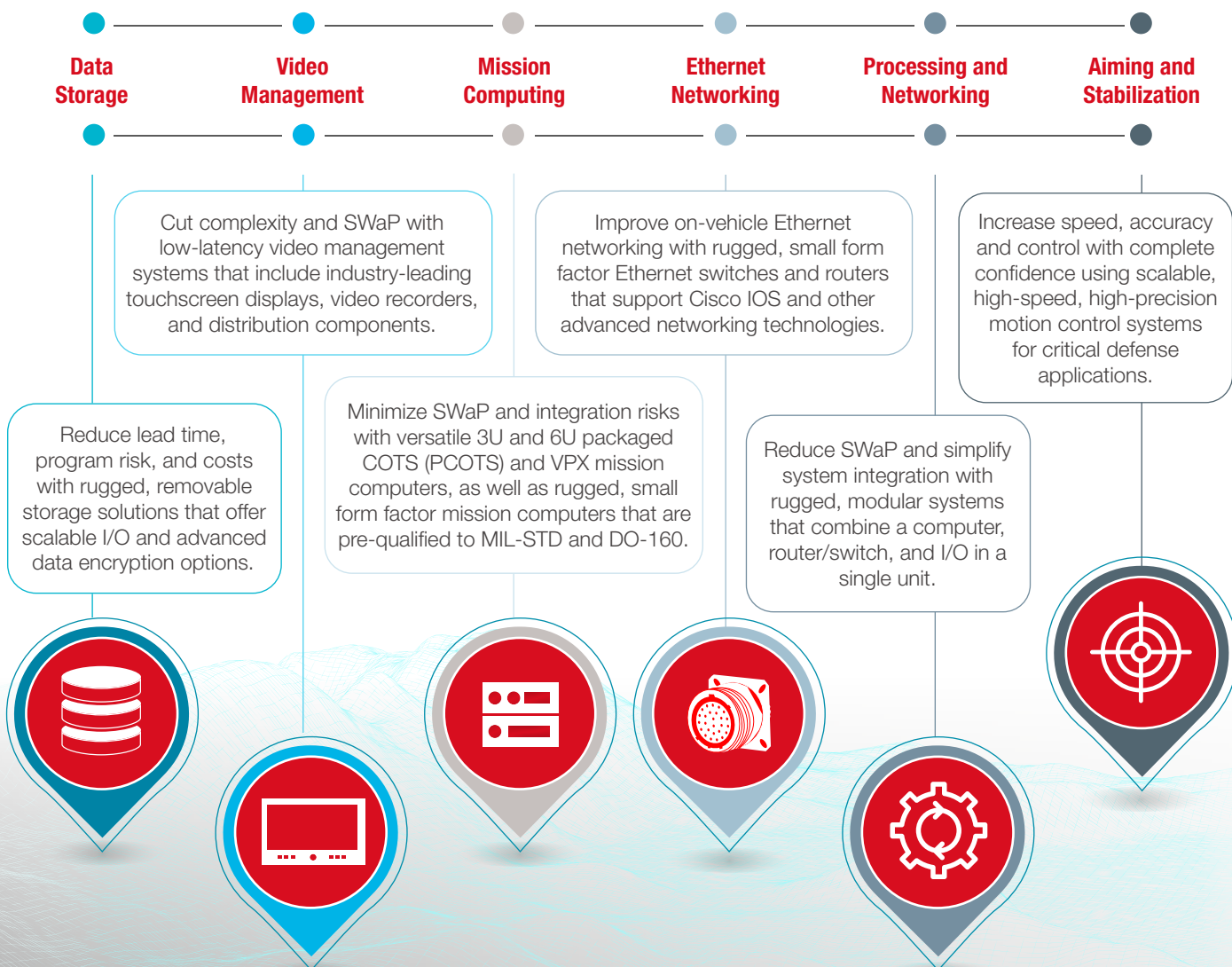
Prequalified Packaging

Avoid the typical risks associated with multi-vendor hardware integration through faster, successful implementation without the inherent learning curve.



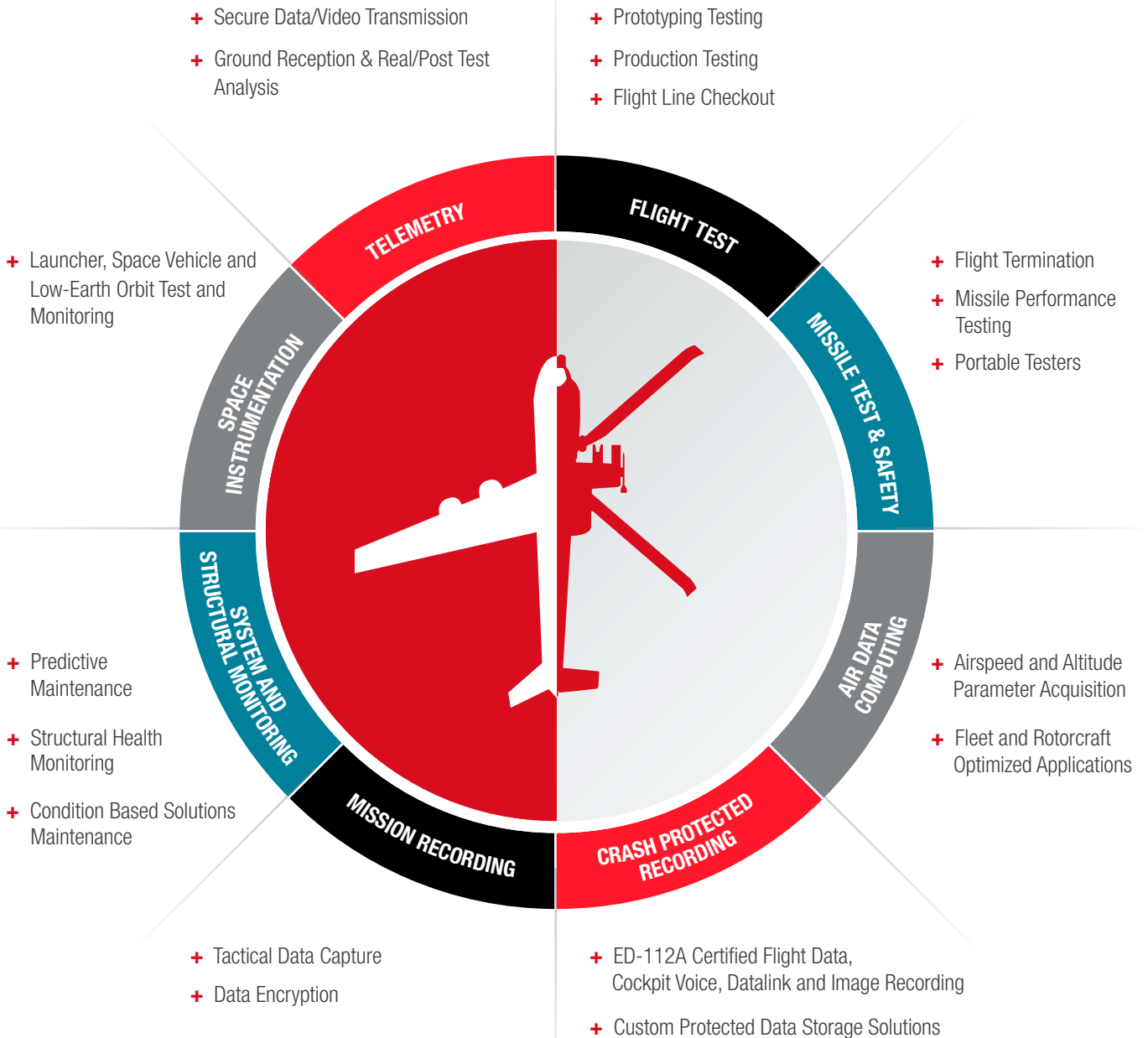
FIELD-PROVEN SYSTEMS

Accelerate system development and deployment with a broad range of COTS and fully customized, pre-integrated system solutions that are modular and meet challenging system requirements, from data storage and video management, to mission computing and high-speed Ethernet networking.



RELIABLE DATA IN EXTREME ENVIRONMENTS

We have a long and proven track record of delivering robust, fully customized COTS solutions that ensure data is dependably and accurately delivered in harsh locations, such as engine bays and the high-radiation environments of earth's orbit.



90+ YEARS

7,800+ EMPLOYEES

\$2+ BILLION IN SALES

TACTICAL DATA LINKS, SIMPLIFIED

Increase tactical data link (TDL) confidence and reduce risk with industry leading systems and tools that enable operators, warfighters, and platform integrators to achieve their mission goals.

Curtiss-Wright Defense Solutions is the leading independent supplier of TDL software and hardware solutions for military communications systems. Our comprehensive portfolio of TDL testing, training, simulation and battlefield operations systems provides the warfighter with proven multi-link communication capabilities to optimize performance and increase mission effectiveness.

Through customized COTS solutions that meet warfighter requirements, we provide affordable, flexible, and state-of-the-art products that support multiple TDLs and protocols including Link 11/16, VMF, JREAP, SADL, SIMPLE, CoT, CESMO, ADS-B, AIS, DIS. By leveraging object-oriented design techniques and industry best practices that are Software Engineering Institute (SEI) - Capability Maturity Model Integration (CMMI) compliant, we can drastically reduce the time our customers need to build, integrate, test, train, and deploy TDL capabilities.



LinkPRO

- + Software Data Link Processor



BOSS

- + Tactical Display, Simulation
- + TDL Link Validation



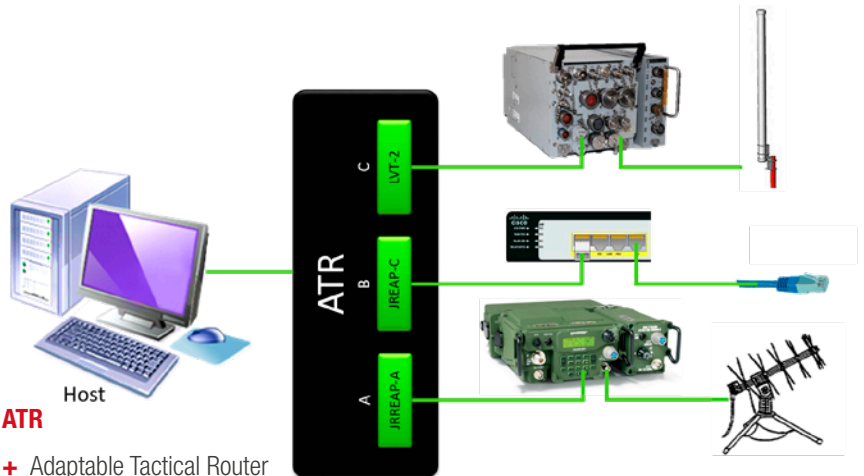
HUNTR

- + Multi-TDL Gateway
- + DACAS Missions



GTS

- + TDL Ground Station, Multi-MIDS
- + TDL Training and Operations



ATR

- + Adaptable Tactical Router



With engineering, manufacturing, and program support capabilities world wide, Curtiss-Wright is uniquely positioned to meet regional requirements, such as ITAR or non-ITAR content restrictions, and support initiatives like the Government of Canada's Industrial Technological Benefits and Value Proposition (ITB/VP) program.

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