Space COTS products for Launchers





Curtiss-Wright provides COTS solutions for launcher development and flight instrumentation systems. Our equipment has flown on or been selected to fly on the following launcher platforms:

Space Shuttle	ULA Delta II	Rocketlab Electron
SpaceX Falcon 1	ULA Delta IV	ESA Ariane 6
SpaceX Falcon 9	ULA Atlas V	ESA VEGA-C

This success across a wide range of launcher platforms is based on our qualified and flight proven Space COTS data acquisition, networking and recording hardware solutions.

- Ruggedized, compact and low power design
- Reliable finite state machine architecture
- Synchronous sampling of all sensors across the network

Lowering the Cost of Delivering Mission Success with Increased Performance

- Rugged data acquisition in extreme vibration and shock environments
- Deterministic networking for multi-stage launchers
- Video capture, telemetry and mission processing
- Integrated black-out data buffer to protect again data loss
- Ruggedized recording option for re-useable stage monitoring
- Radiation tolerant option for launcher upper stage







The Space COTS Advantage

Lower Cost

- Using modular COTS design lowers launcher development costs and risk
- Optimized for low cost across procurement life of launcher platform
- Reduced test phase costs using existing COTS test and integration tools

21st Century Design

- Ruggedized, compact size, low mass and power with high channel density
- Designed for efficient thermal management in space environment
- Modular scalable system with proven reliable and radiation tolerant design

Flight Proven

- · Heritage on wide variety of international launcher platforms
- COTS approach leverages decades of R&D experience and IP library
- Unique supplier of both DFI and OFI for launchers with the same Space COTS products







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