



Redstone Test Center

Missile Telemetry

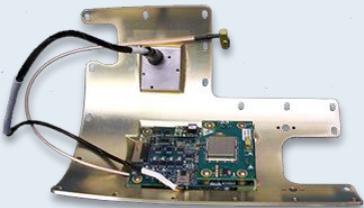
RTC engineers and technicians design, build, and test custom telemetry systems for R&D and fielded DOD weapon systems. This includes custom telemetry and FTS systems for R&D programs and telemetry systems for fielded or modified production weapon programs. RTC also maintains and operates state-of-the-art mobile and fixed telemetry ground station facilities in support of telemetry data acquisition on Redstone Arsenal and elsewhere. The Redstone Arsenal capabilities include multiple fixed telemetry sites whereas our telemetry vans and vehicles provide a capability to provide rapid response support at remote test locations worldwide. RTC engineers serve as subject matter experts for the Army and DoD in weapon system telemetry and flight termination hardware and application and also serve as a technical liaison between instrumentation research programs and actual Army/DoD weapon system needs. Test areas, facilities, & other capabilities include: a 15,000 Square Foot telemetry design and system development laboratory; telemetry ground station facilities; and mobile telemetry capabilities.

Core Competencies

- Telemetry Design to include:
 - Telemetry Formatting
 - Custom Printed Circuit Board Design and Assembly
 - FPGA Design
 - Custom Mechanical Packaging
- Telemetry and Data Movement Subject Matter Expertise
- Telemetry Ground Station Support
 - Local (Redstone Arsenal)
 - Mobile

Capability Highlight

Custom Telemetry Design:



Mobile Telemetry Ground Station:



Last 5 Years



800+

Telemetry Flights



20+

Flight Termination Systems



700+

Missile Flights



50,000

Lines of VHDL Code



20Mb/s

Data Rate