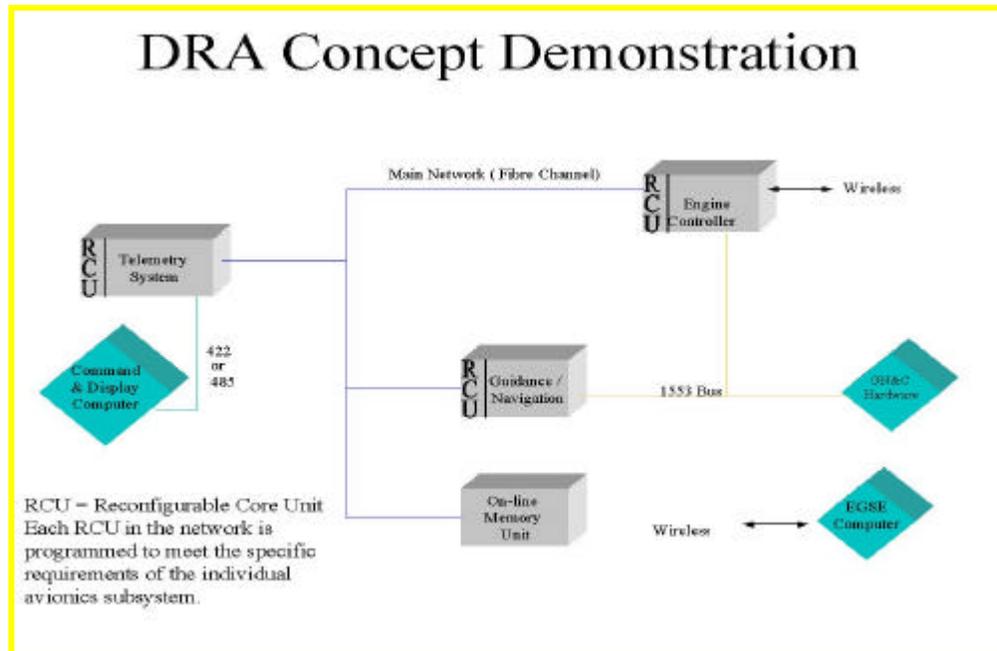




Distributed, Reconfigurable Avionics (DRA) Technology



Objective

This effort will develop a distributed, modular, avionics architecture based upon the emerging principles of dynamically reconfigurable hardware with the ability to configure individual components in-circuit without removal.

Why Needed

A highly reliable, flexible avionics system which significantly decreases the volume, weight, and power requirements as compared to conventional avionics used in space applications is needed. Through the use of reconfigurable hardware and design techniques, DRA technology has the potential for significant cost savings. These savings can be achieved by providing reliable and long-life units; by reducing labor-intensive ground processing activities; by accommodating various launch configurations; and by enabling additional cost-savings technologies.

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Sponsor

Launch Systems Technology Project