

The Compact Reconfigurable Avionics

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The overall avionics activity, called “Compact Reconfigurable Avionics (CoRA)”, comes from a technology push and shall demonstrate the flexibility, reliability and usefulness of a highly configurable system developed by using Model Based Avionics engineering. The technology targets hardware platform based on a combination of upcoming multi-core processor and large space qualified reconfigurable FPGA.

The Compact Reconfigurable Avionics could be applicable to any mission, but the concept will be demonstrated on a strawman mission to reduce the size of their avionics (data handling core and smart AOCS & GNC elements) while being reliable (rad hard).

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