

Introduction about Integrated Modular Avionics

IMA will progressively reshape the Aircraft Systems architecture

IMA new paradigm

- IMA concentrates in a few similar computers most Aircraft Systems functionalities
- IMA separates, dematerializes, the Aircraft & Systems Functions from the hardware itself
- IMA interconnects the different hardware through multiplex communication instead of point to point communication

IMA major benefits

- Aircraft on board benefits
 - Weight saving due to less computers and reduced wiring for communication
 - Less energy consumption
- Development Lead-time and NRC / RC reduction
 - Better reuse and portability of the software (Functions)
 - Modularity & independence of software applications (Functions); optimized systems integration
- New business models for the Supply chain

