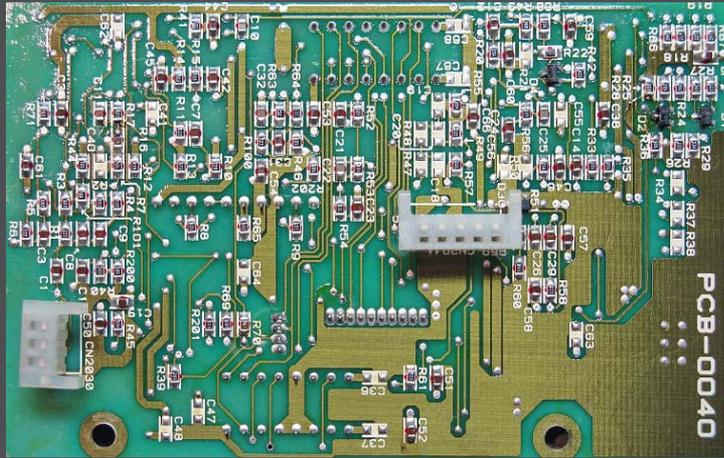


Digital components in Power Management

Arturo Fernandez, TEC-EPM

10/2018

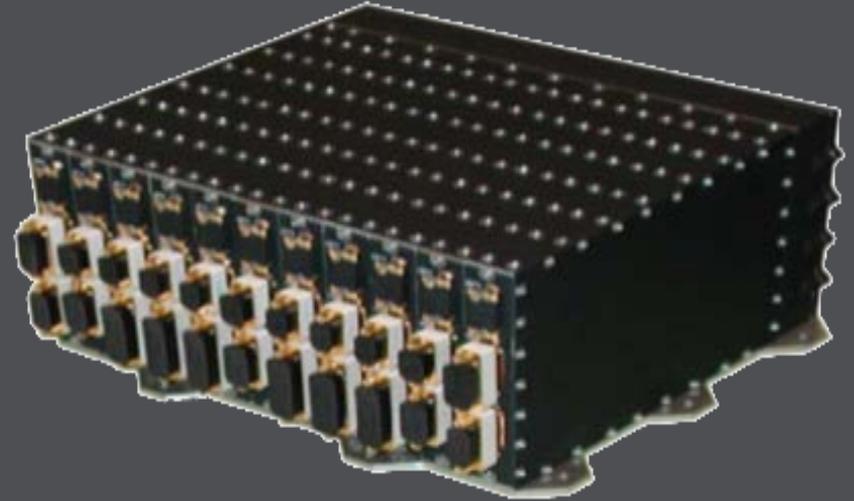
A more general case... Integration



Specific case: Power management

Digital control

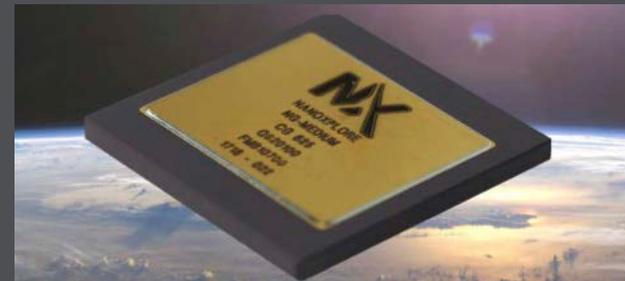
- Integration
- Local intelligence
- Complex control systems
- Efficiency



Need of small FPGA – Not trendy ☹️

Small and cheap FPGAs with :

- ADCs
- PWMs



COTS FPGA available

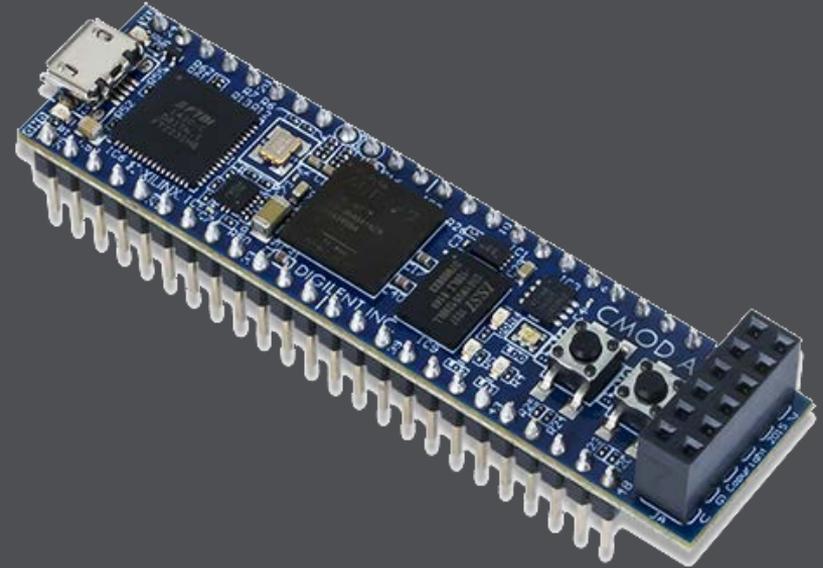


512KB SRAM

48-pin DIP connector

44 Digital I/O

2 Analog inputs (0-3.3V)



Rad Hard in Plastic package?

BGA plastic package

PCB with multiple Rad Hard chips

