Central Institute of Engineering, Electronics and Analytics,
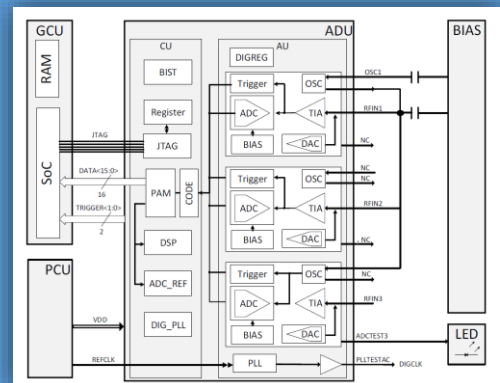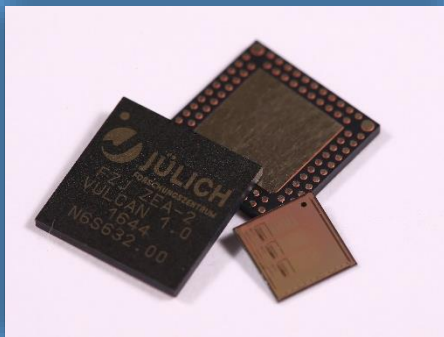
ZEA-2: Electronic Systems

Software Defined Analog-to-Digital Converter

The Need

Provide a flexible, programmable and scalable analog-to-digital converter for demanding applications in particle detection, neutron detection, safety & security, medical and analytical instrumentation

Key Features

- 3 high speed inputs (1GHz) with programmable gain
- Integrated blocks for signal (pre)processing
- Integrated, programmable trigger generation
- LVDS output and JTAG programming interface for easy system integration

Impact

- Faster development cycles, since easy programming of integrated DSP
- Less system complexity leads to less system cost
- Software defined ADC enables adaptations of the system to new application needs without changing hardware

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