## IIO and Media Controller

#### Introduction

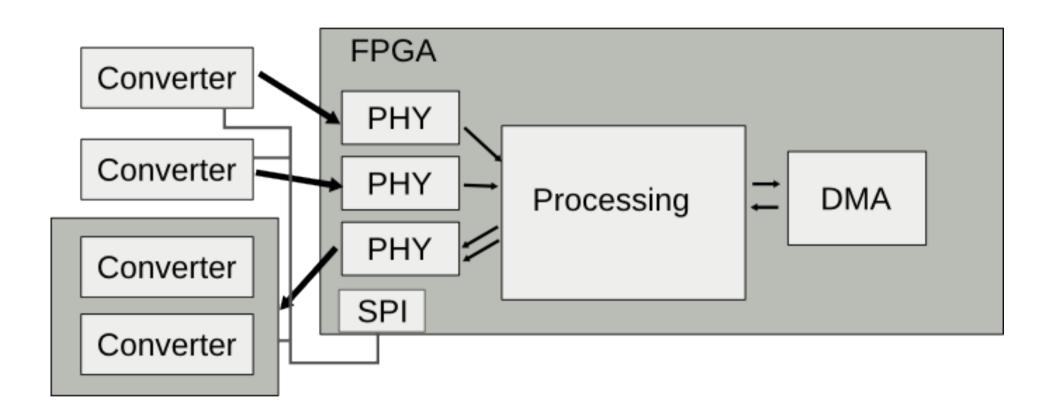
- IIO was create to fill the gap between hwmon and input
- Supports general purpose ADCs, DACs, accelerometer, gyro, light sensor, pressure, magnetometer

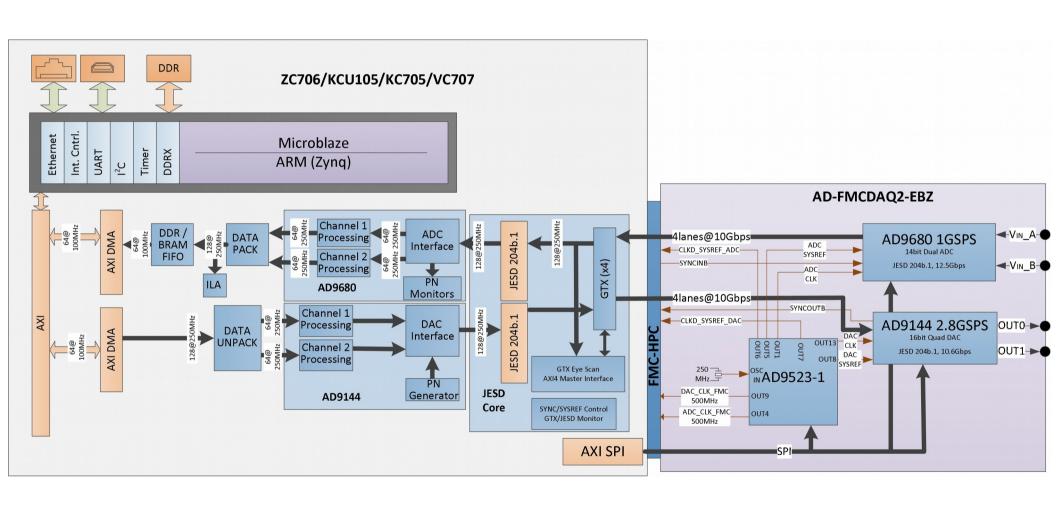
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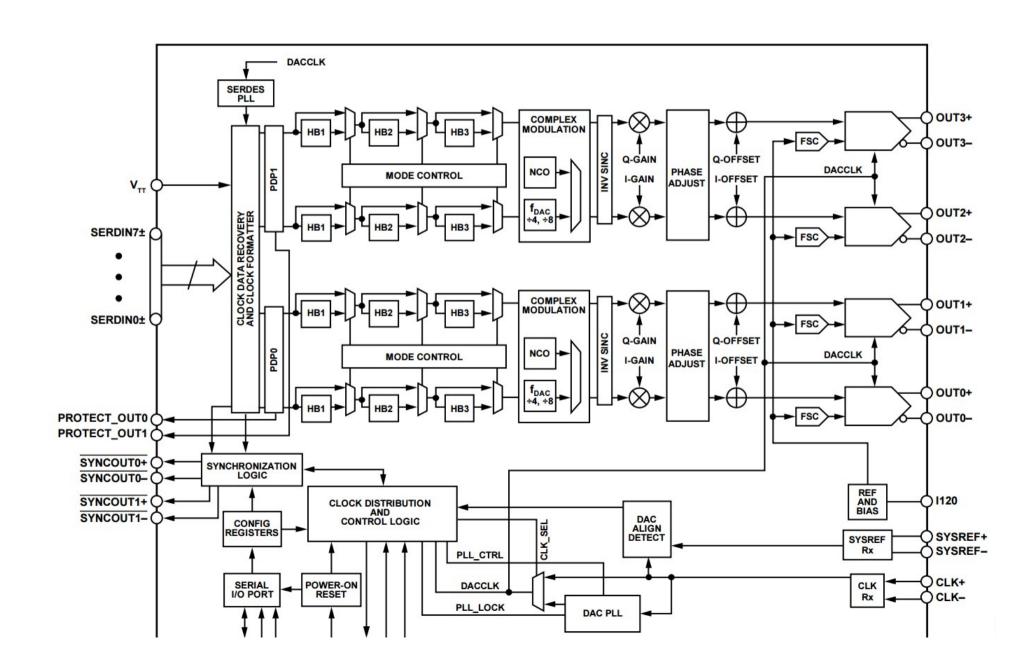
- Those were typically low speed device (< 10kSPS)</li>
  - Control bus was also data bus (I2C/SPI)

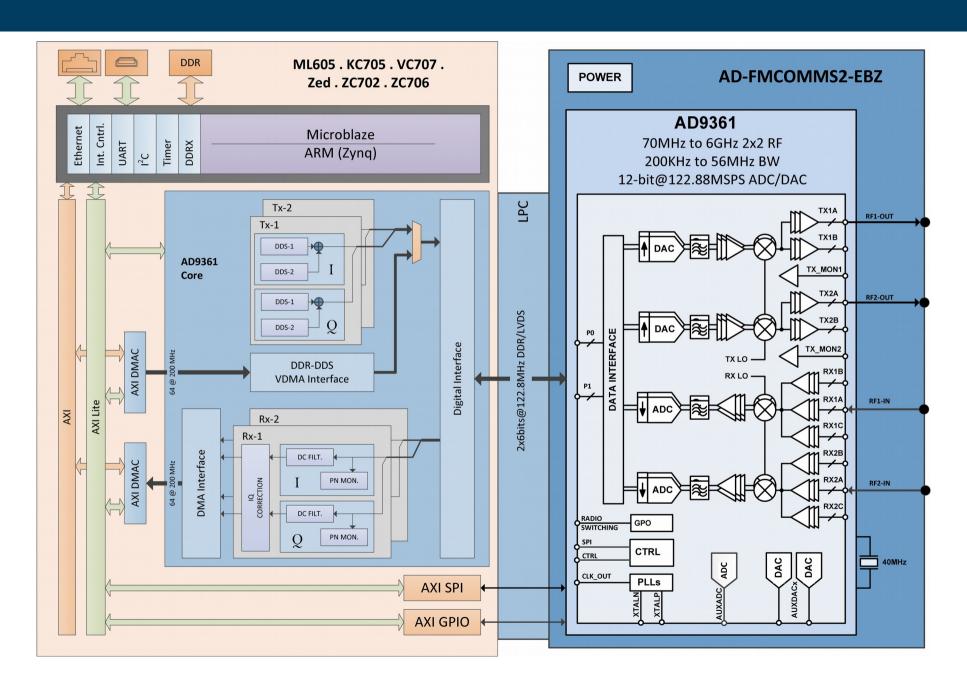
#### Introduction

- Things changed quickly
- Support for high-speed converters
  - Up to 5GSPS
  - Separate control and data bus
  - E.g. LVDS or JESD204b for data









- Converters become smarter
  - Complex processing pipelines inside the chip itself
- Converters are connected to FPGAs
  - Even more complex processing pipeline inside the FPGA
  - Multiple converters connected to a single pipeline

### Topology information

 We need topology information for applications to make sense of this

#### Media Controller

- And this is where media controller comes in
- Data processing pipelines are very similar to video processing pipelines
  - Same concepts
- No need to re-invent the wheel