Industrial RCP

Rapid Control Prototyping Solution

Power Smart Control SL

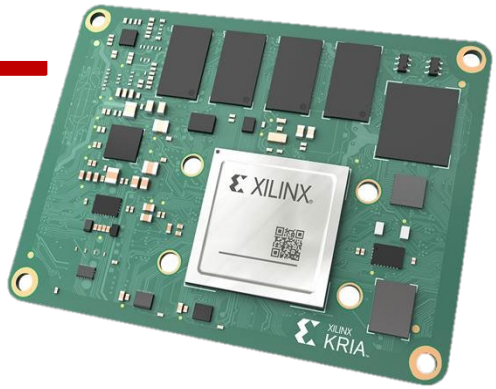
Industrial

Rapid Control Prototyping

Choose white when black-box approaches is not an option

- PWM **modulation features are fully controlled** as they are defined in C or VHDL
- The code validated by RCP can be **exported directly** into the real Control Unit
- **Remote Controlling** capabilities
- Embedded **oscilloscope** & **datalogger** and advanced post-processing tools
- **Large collection** of **control IPs** available in C & VHDL
- **User Interface** to manage the operation of the system
- **Engineering** & **Consulting** services available

KRIA K26, the brain of the system



Computational core **at the edge of technology**:

KRIA K26 features an exclusive, custom-built XCK26 SoC based on the Zynq® UltraScale+™ MPSoC architecture

Huge FPGA + 6 high end ARM microprocessors

Unlimited access to all **FPGA resources** and microprocessor coding

Nowadays advanced modulator or control techniques require more tight time control. FPGA side offers all the power and the certainty required

Connections

Analog and Digital Front End:

- 32 · Digital inputs 0-24V (Isolated - Read rate = 20kHz)
- 32 · Digital outputs 0-24V (Isolated - Update rate = 20kHz)
- 36 · PWM output channels (RJ45 - 0-5V – RS422 – Differential - Isolated - ts<10ns)
- 12 · Fast analog input channels (12bits - 3Ms/s)
- 12 · Slow input analog channels (12bits - 500ks/s)
- 16 · Analog output channels (16bits – 500ks/s)

High-speed serial connectivity:

- 1 · Ethernet (1GB - RJ45)
- 4 · USB 2.0
- 2 · ETH RJ45 to parallel converters (ETH ring)

Industrial connectivity:

- 2 · CAN bus
- 2 · UART (USB converted)
- 2 · RS485 (Full-duplex)
- 1 · MicroSD card

Power requirements:

- 24V – 60W max

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