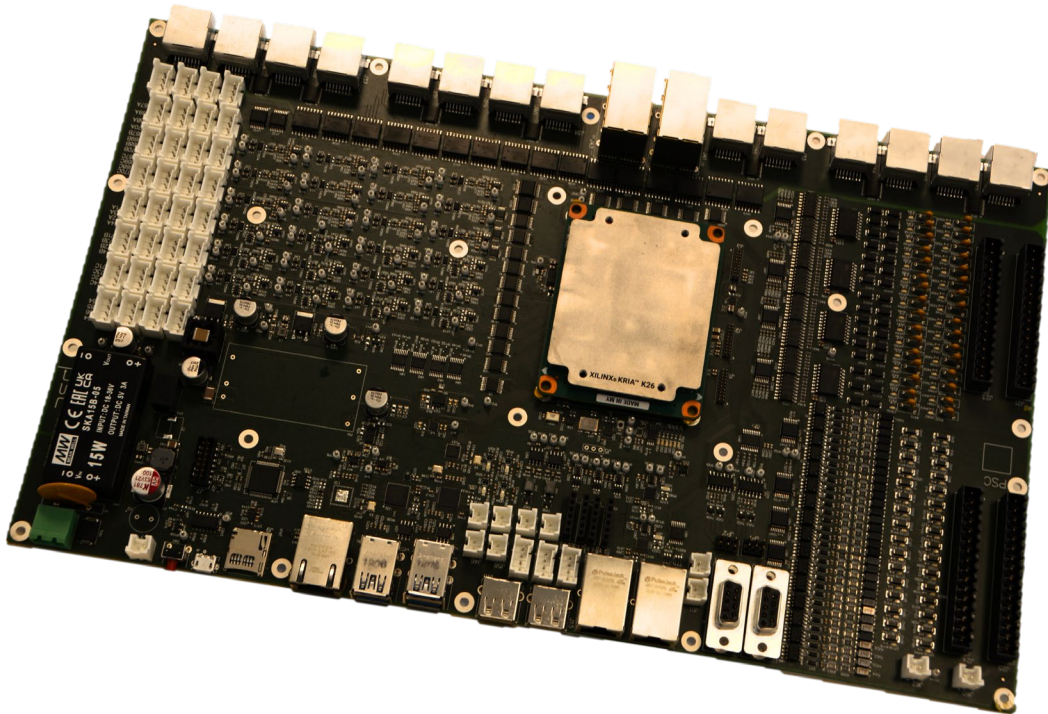


## Industrial Renewable Energies Control Board



*The fastest and non iterative solution for your new converter control system*



PWM **modulation features are fully controlled** as they are defined in C or VHDL



Fully **flexible coding**: C/C++ for ARM microprocessors and VHDL/Verilog for FPGA



**Remote Controlling** and **FW update** capabilities



Embedded **oscilloscope & datalogger** and advanced post-processing tools



**Large collection** of **control IPs** available in C & VHDL



**Web Server** operation available powered by Petalinux



**Engineering & Consulting** services available

# Features for Renewable Energies Control Board

## Digital SOM:

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

## 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:

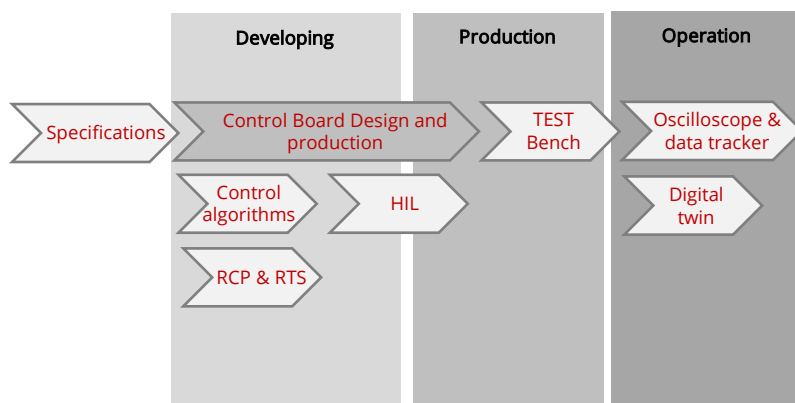
24V – 60W max



Control Boards already available in PSC's portfolio



## PSC is present during all the Control Boards Development



PSC offers not only Control Board designs and developments

PSC can be present **in the complete loop of the Control Boards Development**

From development to Operation; **from embedded debugging tools to manufacturing quality assurance**

**PSC offers high added value controlling solutions for your Power Converter**



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