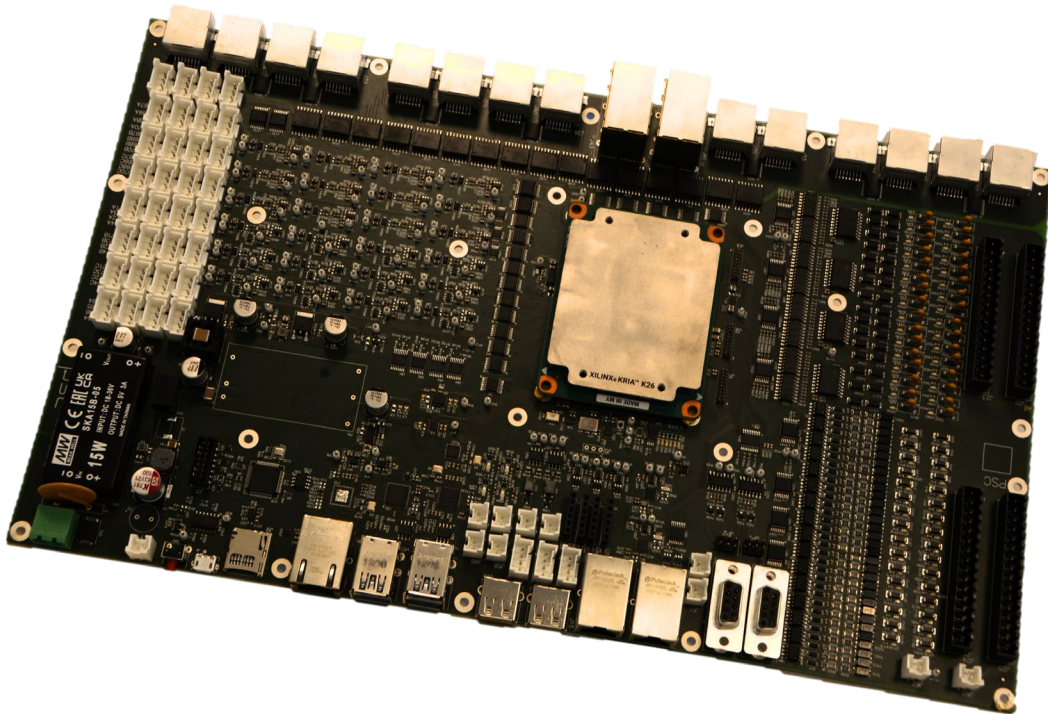




Industrial Renewable Energies Control Board



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:

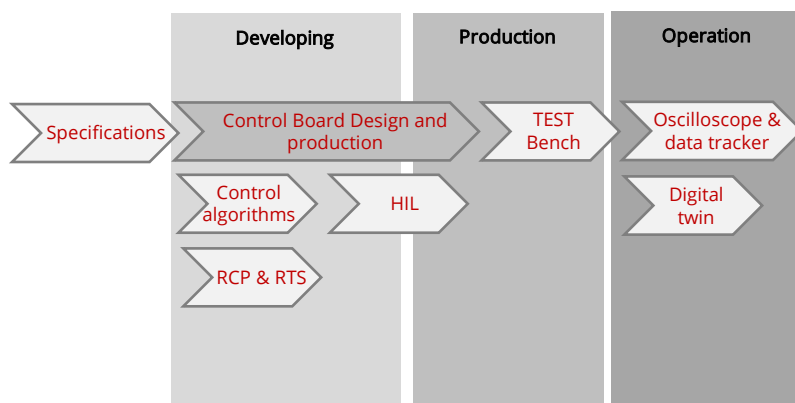
24V – 60W max



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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