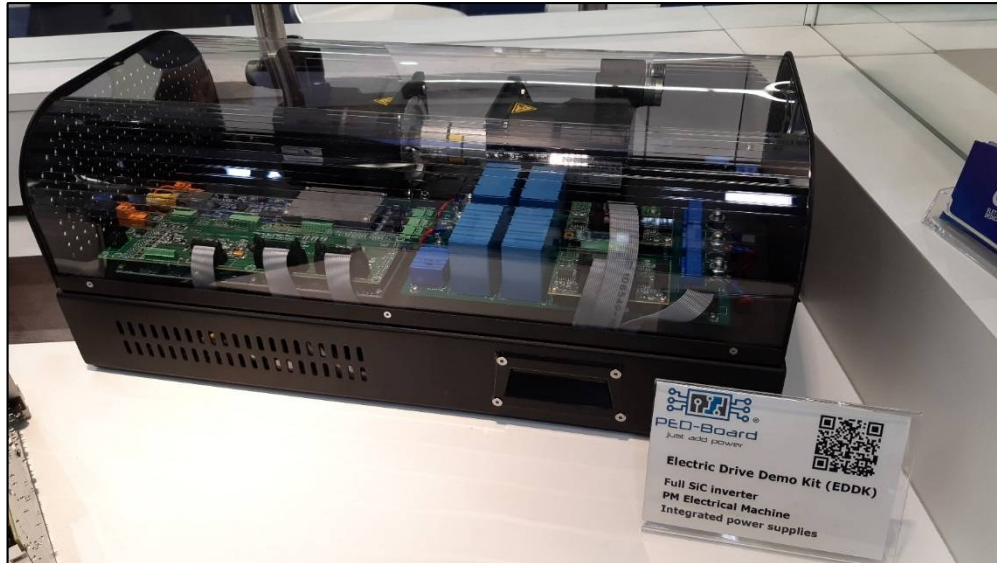


PED-Board

just add power

# Electric Drive Demo Kit (EDDK)

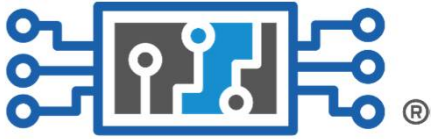


- Full demo LabVIEW project for Field Oriented Control of PM Electrical machines, Real-Time and FPGA VI, ready to run;
- Integrated scope for direct visualization of currents and voltage



- *Fully programmable by LabVIEW*
- *Demo program*
- *Full SiC inverter*
- *Industrial electrical drive operating at 360V*

Size: 550x250x202 [mm]

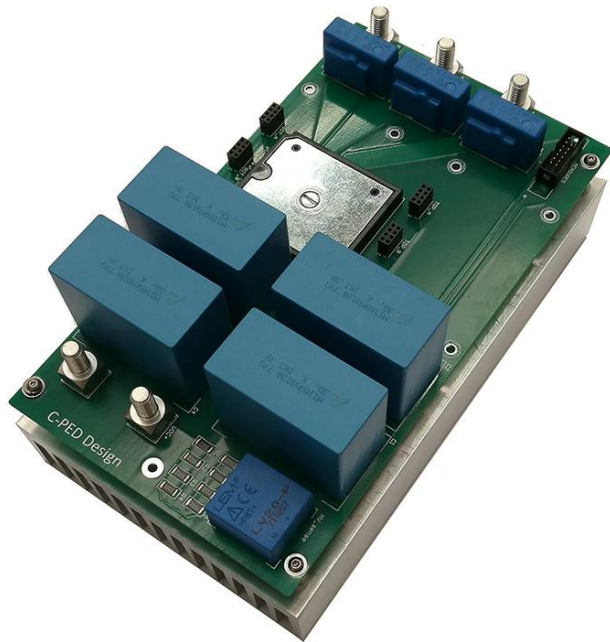


**PED-Board**

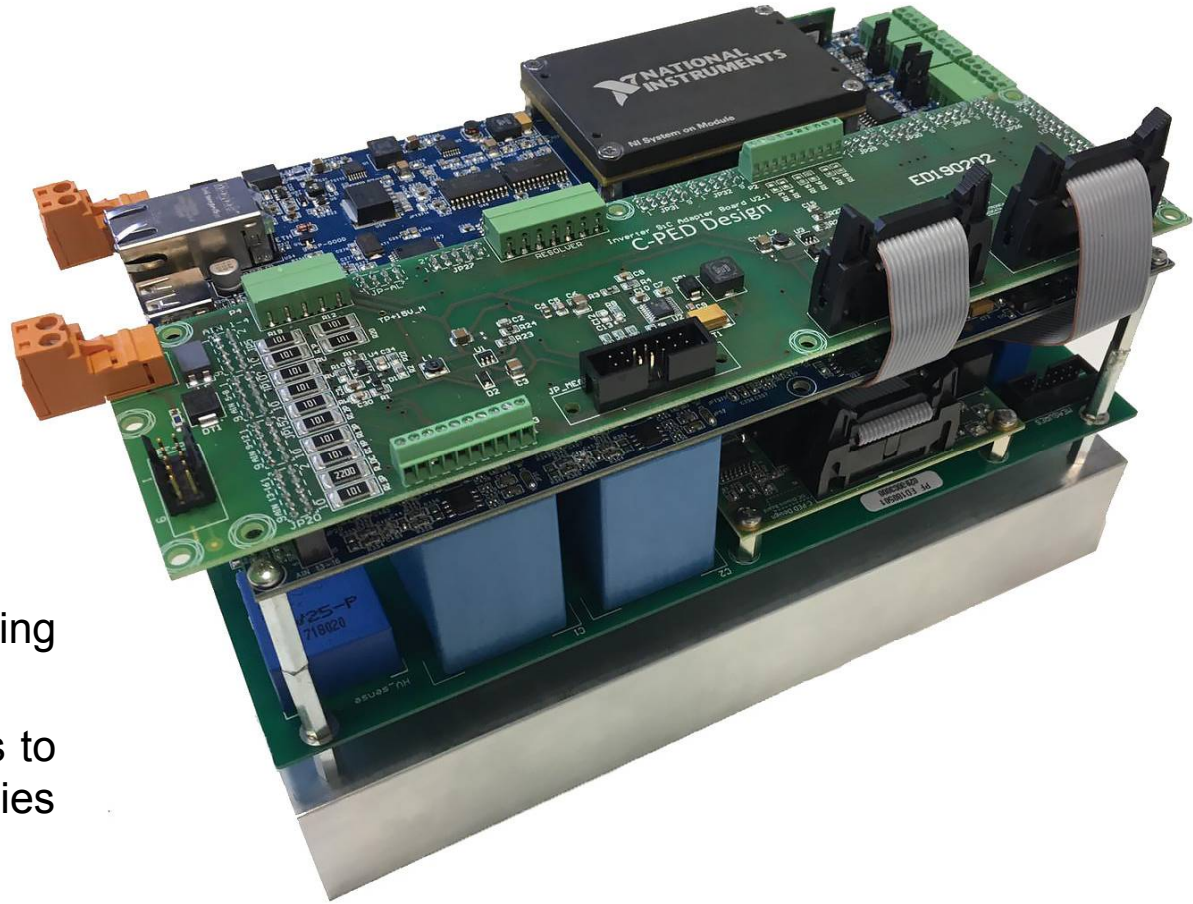
just add power

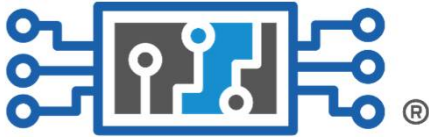
## Full SiC Inverter

- EDDK is equipped with a full SiC inverter



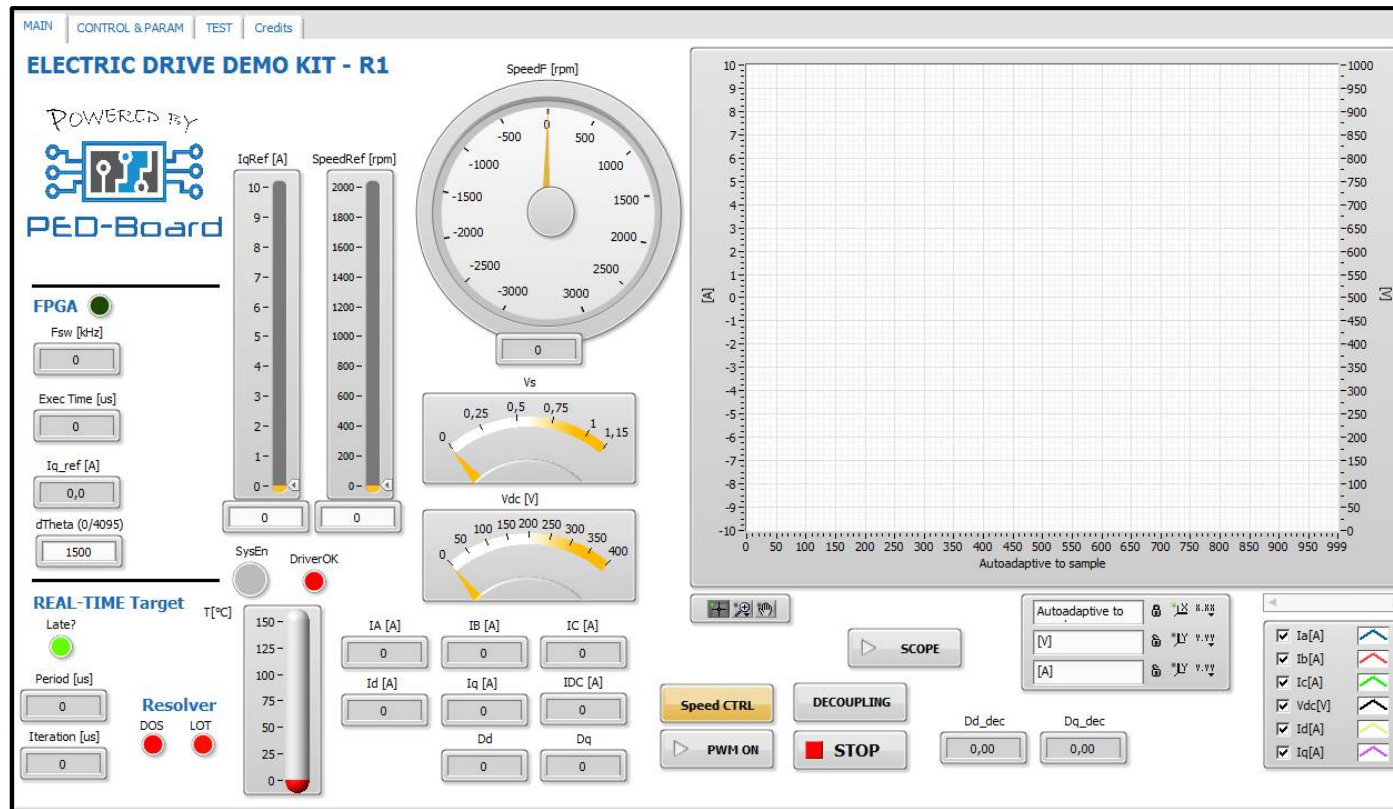
- Up to 60 kHz switching frequency
- Synchronous sampling thanks to the FPGA calculation capabilities
- Integrated measures



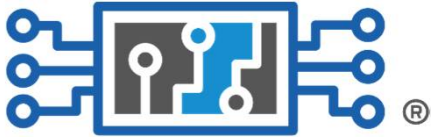


**PED-Board**  
just add power

## Front Panel of the demo software

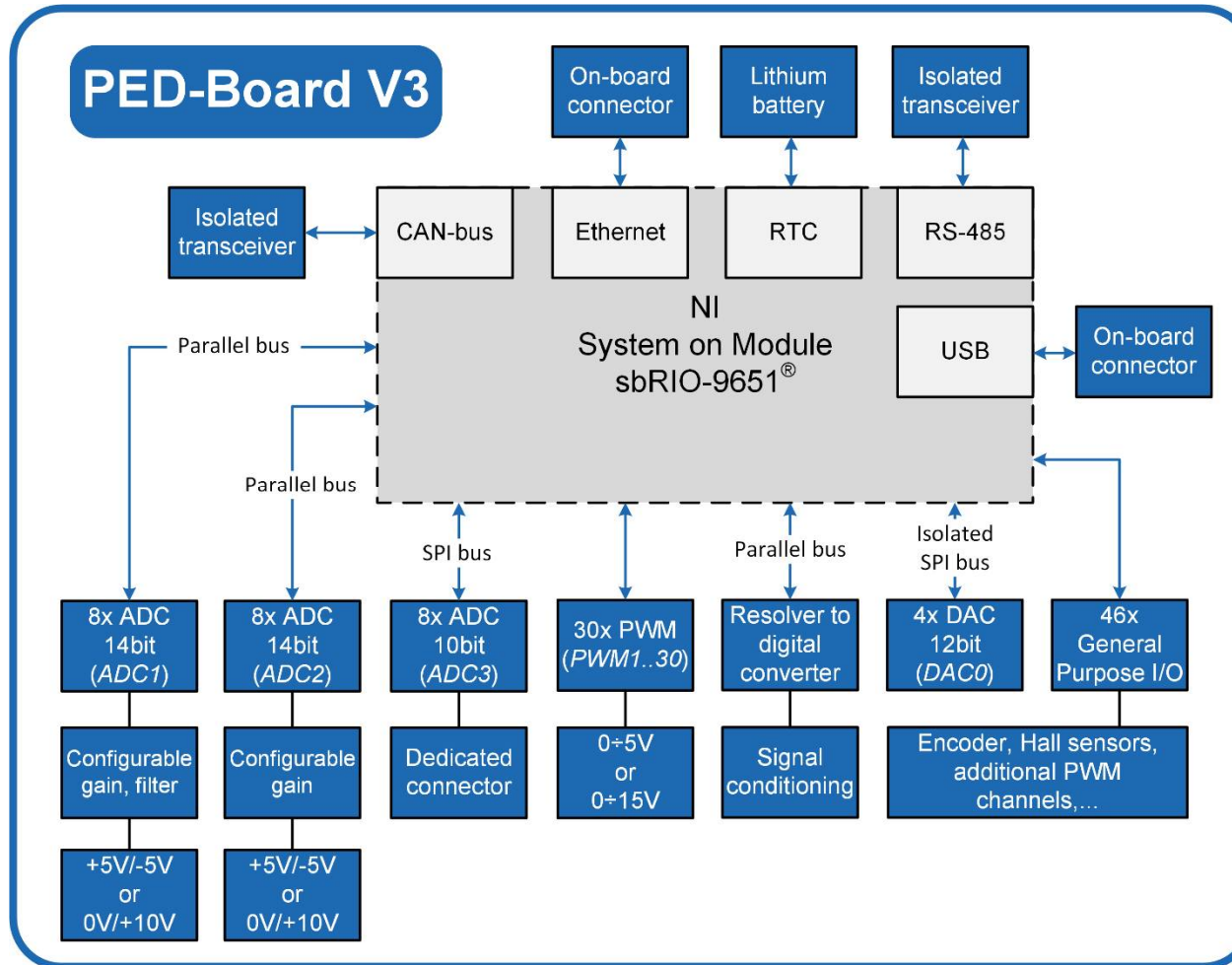


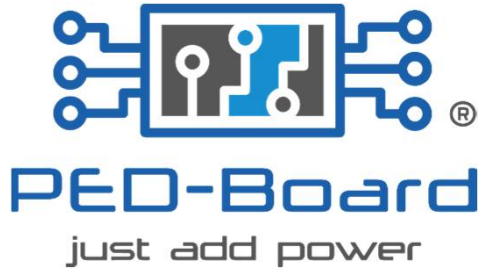
- Speed or torque control
- Synchronous scope for currents and voltage



**PED-Board**  
just add power

## EDDK will be equipped with the new PED-Board V3





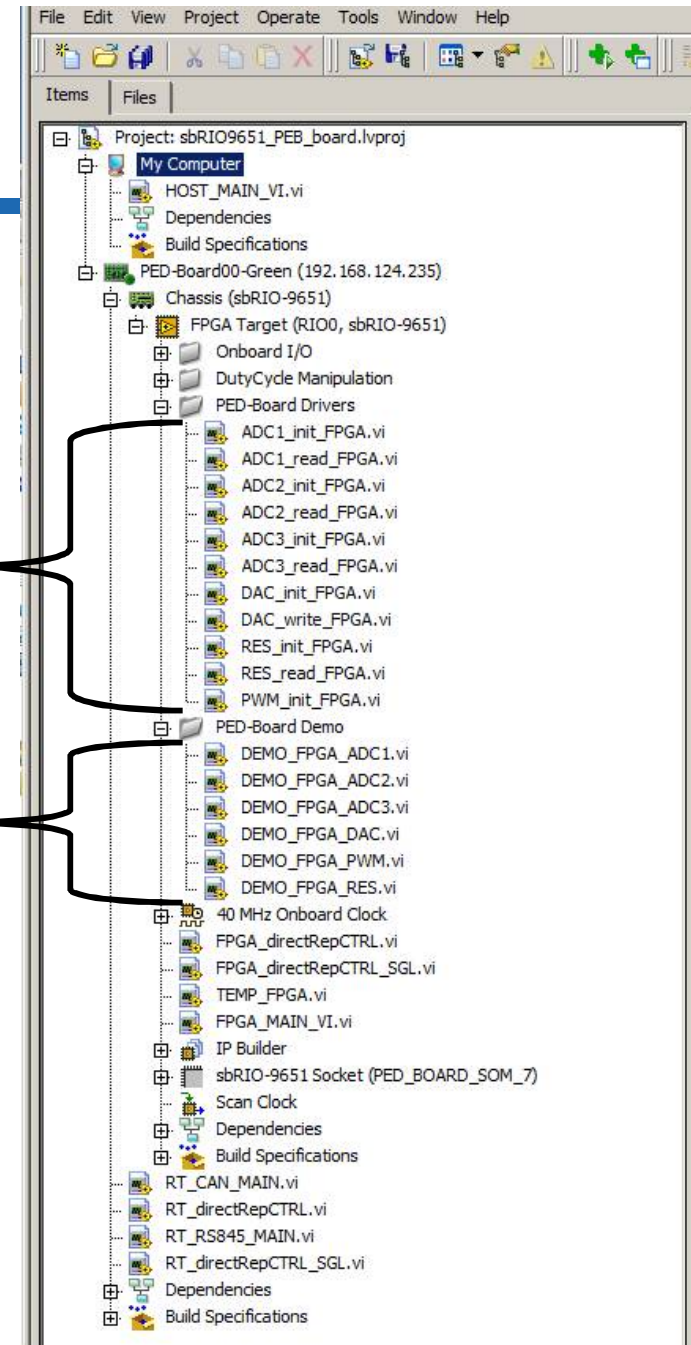
# LabVIEW PROJECT EXAMPLE

**PED-Board PERIPHERALS DRIVERS**

**PED-Board PERIPHERALS DEMO PROGRAMS**

Examples and demo programs  
can be downloaded from

[www.ped-board.com/projects](http://www.ped-board.com/projects)



## What's next....

*Same hardware, new experience with new software*

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- New control topologies like Model Predictive Control
- Flux-weakening
- Self tuning algorithms (detailed description)
- Load electrical machine will be accessible for external active braking...
  - simulating wind power systems
  - regenerative braking
  - and much more...



**PED-Board**  
just add power

## Contacts

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