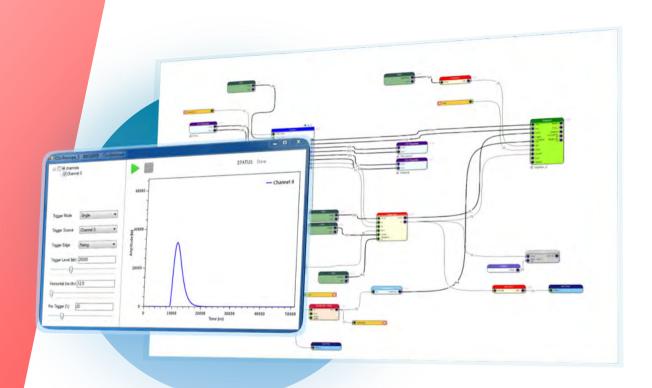




Sci-Compiler

Graphical Programming Language for CAEN Open FPGA Boards



Sci-Compiler

GRAPHICAL PROGRAMMING LANGUAGE FOR CAEN OPEN FPGA BOARDS





An innovative programming software tool to generate custom firmware for open FPGA CAEN boards. Even accessible by non-experts of VHDL/Verilog languages. A unique tool to generate and compile FPGA firmware.

Sci(entific)-Compiler, is a graphical software tool designed to ease and accelerate the firmware implementation in physics for open FPGA CAEN boards. Drawing a block diagram, the software can automatically generate a firmware that can be directly deployed on the chosen compatible hardware. In this way, even a non-expert user can write his own firmware code without having any knowledge of VHDL/ Verilog programming language. A unique tool to generate and compile FPGA, download it on the target device, and run the real-time solution acquiring data on a host computer.

Sci-Compiler tool includes 100+ virtual blocks implementing complex functions used in physics applications, like waveform recording, logic gates, TDC, spectrum reconstruction, pulse shape discrimination, and more.

In addition to the firmware, Sci-Compiler automatically also generates the related libraries and C++/Phyton software example codes for Windows $^{\circledR}$ and Linux $^{\circledR}$.

Sci-Compiler supports the following Open FPGA CAEN boards (DT: Desktop / VX: VME64X / V: VME64 / R: Rack)



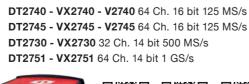


R5560 128 Ch.14 bit 125 MS/s Digitizer with differential inputs

R5560SE 128 Ch.14 bit 125 MS/s Digitizer with single-ended inputs

DT5560SE 32 Ch.14 bit 125 MS/s Digitizer







PT5550 DAQ System with User Programmable FPGA and sequencer

DT5550W Weeroc ASICs Development system

















Processing Algorithm

Navigate through hundreds of blocks designed for Digital Pulse Processing

Firmware

Generate your firmware starting from a block diagram

DAQ

Upgrade

Use the automatically generated Software Development Kit to build your own DAQ

Stay up-to-date with the newest

SCI-Compiler features



Resource Explorer Tool

Check the basic functionalities of your firmware using the Resource Explorer Tool



SERVICES



Remote Customization

Remote customization service allows to generate the firmware code with minimal local resources



Using a single Sci-Compiler license, it is possible to compile and deploy firmware for multiple compatible boards that have been activated through a runtime license*. A different runtime license is needed for each board.

*Firmware generated by SCI-Compiler runs for 30-minutes only if no runtime license is installed onboard

WANT TO START?



Do you need to teach FPGA programming? Have a look at the Sci-Compiler Educational Kit!



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