New

# JANUS

# FERS-5200 DAQ SOFTWARE

## Features


- Model-dependent GUI for a quick and easy start
- Open-Source for user customization
- Management of the acquisition parameters of all connected boards
- Multi parametric Jobs and Runs with time or counts preset
- Data saving of lists in .bin, .txt, and.csv format
- Raw data saving available for offline data reprocessing
- Statistics and Plots visualization

## Description

**Janus** is an open source software for the control and readout of FERS-5200 boards. Available in different versions (Ver. **5202**, Ver. **5203**, Ver. **5204**), it can be used as a platform for the development of custom DAQ, tailored to the specific application. Indeed, the user can change the data treatment, the acquired statistics and the output file format.
Janus can manage up to 16 FERS units connected via Ethernet or USB directly as well as the readout of the **DT5215** Concentrator Board, so that a single user interface is available for the whole system. Janus is composed of two parts, one written in C, which is the real heart of the application, one written in Python which manages the user interface. The plots are executed through Gnuplot. All the configuration parameters are written in a textual configuration file.
It is possible to launch and use Janus in 2 different modes:

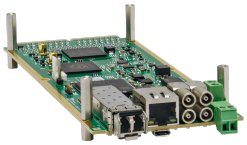
- **Console Mode:** In this case, the Python part of the software is not used. The user can edit the configuration file with any text editor and save the proper values for the desired parameters. Then, the user can launch a purely textual console window. The application writes a series of messages (which are also saved in a log file) and, during the run, prints statistics on the screen. The only graphical part is the plot, which is managed by Gnuplot.
- **GUI Mode:** In this case, the user only have to run the Python program which calls the C program and connects to it via a socket to send commands and receive messages which are then displayed in the Python GUI.

## Related Products

### A5202

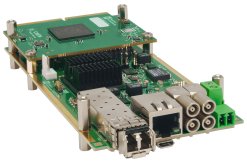
64 Channel Citiroc unit for FERS-5200

### A5204



64 Channel Radioroc unit for FERS-5200

### A5203



64/128 Channel picoTDC unit for FERS-5200

### DT5215

Concentrator Board for FERS-5200

### DT5203


Desktop 64 Channel picoTDC unit for FERS-5200

## CAEN FERSlib Library

High level library for FERS-5200 Boards

### DT5202


Desktop 64 Channel Citiroc unit for FERS-5200

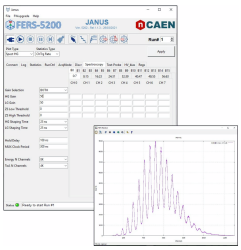
### DT5216


FERS Data Concentrator with 1 optical link

### DT5204


64 Channel Radioroc unit for FERS-5200

## Gallery



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