

DPP-SUP

Super Licence for CAEN Digitizers



Features



- DPP-SUP License covers different CAEN DPP firmware on a single digitizer
- The license is available for 725, 730, 2740-45, 2730 and 2751 digitizer series
- DPP Algorithms licensed:
 - Pulse Height Analysis (**DPP-PHA**)
 - Pulse Shape Discrimination (**DPP-PSD**)
 - Zero Length Encoding (**DPP-ZLEplus**)
 - Dynamic Acquisition Window (**DPP-DAW**)
- The license automatically applies also to incoming new DPP algorithms

Description

DPP-SUP Super Licence:

- DPP-SUP Licence is valid for all the kinds DPP Firmware released by CAEN and supported by a single Digitizer
- The licence registration procedure is automatic and can be completed on our web site

Different Digital Pulse Processing firmware can be available for those CAEN digitizers which support them. These DPPs are freely downloadable in a “trial” version, complete in terms of functionalities but operating only for 30 minutes per board power cycle.

If you want to unlock the firmware, you need to buy a license by sending to CAEN a formal purchase request specifying the product code of the DPP you want to unlock.

The licence registration procedure is automatic and can be completed on our web site. At the end of the registration process, a Product Unlock_Code (PUC) is provided to you. You can use it with **CAEN Toolbox software** to unlock the firmware on your digitizer.

CAEN DPP-SUP is a licence valid for all DPP Firmware available for **725, 730, 2740, 2745, 2730** and **2751** digitizer families; in this way the digitizer is unlocked for all the DPP firmware available for it.

The firmware supported by this license are:

- **Pulse Height Analysis**

Pulse Height Analysis for gamma ray spectroscopy applies to voltage signals coming from HPGe/Si detectors and Scintillators coupled with Charge Sensitive Preamplifiers. Works with independent channels event acquisition and in time stamped list mode. Energy spectra are built by the supported software like the new CoMPASS.

- **Pulse Shape Discrimination**

Pulse Shape Discrimination for gated charge integration and gamma-neutron discrimination is suited for current signals coming from Scintillators, Gas tubes, SiPM and PMT. Works with independent channels event acquisition and in energy & timing list mode. Features digital CFD and timing interpolation for high resolution time information, as well as pulse shape discrimination. Energy spectra are built by the supported software like the new CoMPASS and the DPP-PSD Control Software.

- **Zero Length Encoding**

Zero Length Encoding for advanced zero suppression works with a common trigger and simultaneous acquisition on all channels. The digitized waveforms are transferred in compressed mode by suppressing baseline and empty channels.

- **Dynamic Acquisition Window**

(Coming soon for 2740/2745)

Dynamic Acquisition Window is suited for zero suppression with trigger-less acquisition systems. Works in waveform mode and independent channels event acquisition dynamically stretching the acquisition window (record length) to fit the actual input pulse duration.

Ordering Options

Code	Description
WFDPPS2501A	DPP-SUP - Super Licence for 16ch x 725 Digital Pulse Processing
WFDPPS2501D	DPP-SUP - Super Licence for 8ch x 725 Digital Pulse Processing
WFDPPS2740A	DPP-SUP 2.0 - Super License for Digital Pulse Processing Digitizer 2.0 series
WFDPPS3001A	DPP-SUP - Super Licence for 16ch x 730 Digital Pulse Processing
WFDPPS3001D	DPP-SUP - Super Licence for 8ch x 730 Digital Pulse Processing
WFDPPSXDTLA	DPP-SUP 2.0 - Super License for Digital Pulse Processing Digitizer 2.0 DTL series

Related Firmware

DPP-PHA



Digital Pulse Processing for the Pulse Height Analysis

DPP-PSD



Digital Pulse Processing for Charge Integration and Pulse Shape Discrimination

DPP-ZLEPLUS



Digital Pulse Processing for the Zero Length Encoding

DPP-DAW



Digital Pulse Processing with Dynamic Acquisition Window



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