

## **CAENDPP Library**

**High level library  
for CAEN Digitizers  
running DPP  
firmware**

**CAEN**

**DPP**



- High-level library to control CAEN digitizers running DPP-PHA firmware and Digital MCAs:
  - **724** Digitizer Family
  - **725-730** Digitizer Family
  - **770, 780, 781, Hexagon, Gamma stream**, Digital MCAs
- Single-board and multi-board support
- Enhanced configuration, acquisition and spectra management
- Configuration of synchronized start/stop acquisition (with different stop criteria)
- Single-board coincidences/anticoincidences setting
- Parameters preset algorithm
- List (raw energy and time data) automatic saving
- HV management (if supported by the board)
- Available for C environment (Windows, Linux)

## Description

**CAENDPP** is a high level library designed to completely control exclusively CAEN digitizers running **DPP-PHA** firmware and Digital MCAs.

The library allows the user to manage all the relevant board settings, DPP parameters configuration, data acquisition storage. Configuration of synchronized start/stop acquisition is supported in multi-board hardware setup, as well as the single board can be configured for coincidences or anticoincidences among channels. Histograms are built at the library level and managed through specific library functions; other advanced histogram functionalities are provided (e.g. histogram recovery). Lists of data can be automatically saved to output files. HV management is also handled by the library, if supported by the board.

CAENDPP is provided with examples and Demo applications as reference for user development.

<b>Supported Operating Systems:</b>	<b>Windows (32-64 bit), Linux (32-64 bit)</b>
<b>Language:</b>	<b>C</b>
<b>Supported Products:</b>	<b>VME, NIM and Desktop digitizers running DPP-PHA firmware, Digital MCAs, Hexagon, Gammastream, DT5770</b>
<b>Supported Comm. Interface:</b>	<b>USB, Optical Link, VME</b>
<b>Additional Software Required:</b>	<b>None (CAENDPP library is standalone; only the drivers for the communication link need to be installed apart by the user)</b>

## Related Products

### VX1725 / VX1725S



16/8 Input Channel 14-bit 250 MS/s Digitizer

### V1730 / V1730S



16/8 Channel 14 bit 500 MS/s Digitizer

### DT5781



Dual/Quad Digital Multi Channel Analyzer - Desktop

### V1724



8 Input Channel 14 bit 100 MS/s Digitizer

### Hexagon



Digital MCA

## N6780



Dual Digital Multi Channel Analyzer (HV & Preamplifier PS) - NIM

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## DT5725 / DT5725S



8 Input Channel 14-bit 250 MS/s Digitizer

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## VX1730 / VX1730S



16/8 Input Channel 14 bit 500 MS/s Digitizer

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## N6781



Dual/Quad Digital Multi Channel Analyzer - NIM

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## DT5730 / DT5730S



8 Input Channel 14 bit 500 MS/s Digitizer

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### DT5724



4/2 Input Channel 14 bit 100 MS/s Digitizer

### VX1724



8 Input Channel 14 bit 100 MS/s Digitizer

### V1725 / V1725S



16/8 Input Channel 14-bit 250 MS/s Digitizer

### DT5780

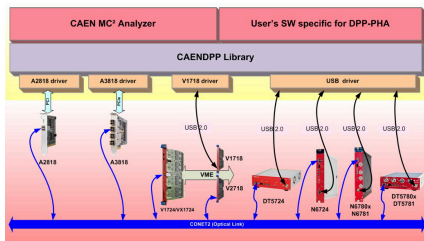


Dual Digital Multi Channel Analyzer (HV & Preamplifier PS) - Desktop

### DT5770



1 Channel Digital MCA



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