

# Digital Pulse Processor

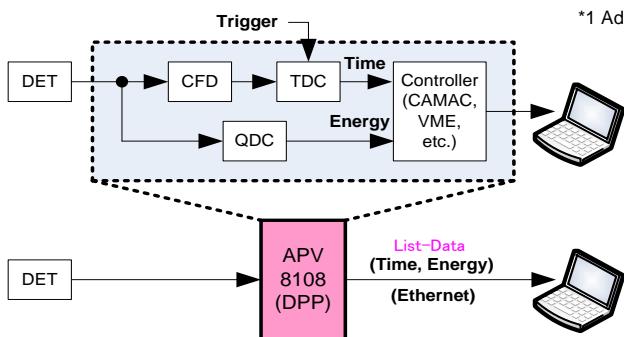
## APV8108-14(1Gsp)

### Features

- ADC
- Time resolution
- Throughput
- Analyze more
- Functions
- Communication I/F
- Usage example

1Gsp, resolution: 14-bit, 8 channels  
 Coarse : 1ns | Fine : 3.9ps , LSB  
 1Mcps and more / channel  
 List(TDC+QDC), Wave, Histogram, List-Wave<sup>\*1</sup>  
 (digital)CFD, TDC, QDC, PSA<sup>\*1</sup>, coincidence<sup>\*1</sup>  
 TCP/IP, Gigabit ethernet  
 Data transfer: 10MByte (Gigabit) / second more  
 Multi channel system using plastic scintillator  
 Multi channel system using scintillators and wire chamber etc.

<sup>\*1</sup> Addition of options, specification change is possible.

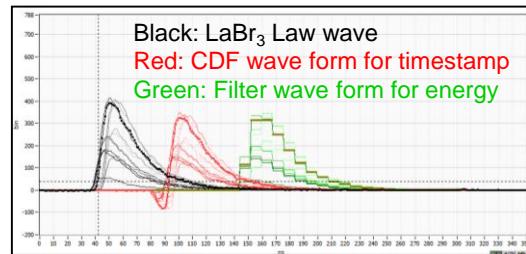


### ◆ List data example

\*TDC 1digit is 3.9 ps

80                    15                    11                    0

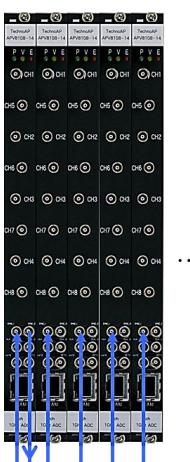
Event#1	TDC[63..0]	CH[3..0]	QDC[11..0]
Event#2	TDC[63..0]	CH[3..0]	QDC[11..0]
Event#N	TDC[63..0]	CH[3..0]	QDC[11..0]



Wave mode: LaBr<sub>3</sub> detector used

### ◆ Usage example using multi board

#### List mode measurement

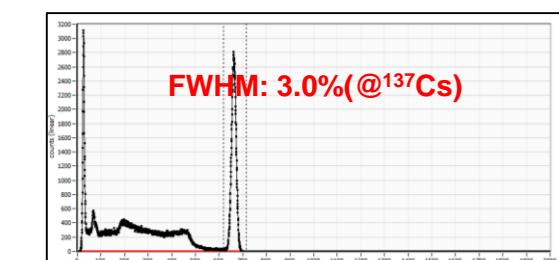


Connect Sync-CLR of board #0 to other Sync-CLR-I

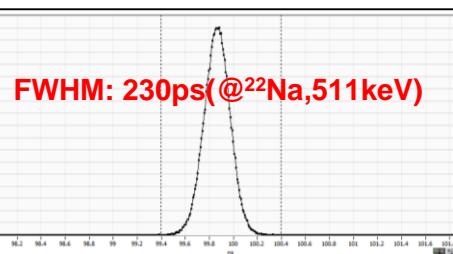
#### List-Com mode measurement



Repeated CLR is entered,  
and when measuring the time  
difference spectrum from  $T_0$ ,  
input CLR to CH 1 of each board.  
Use a fast rise signal such as NIM.



Energy Spectrum: LaBr<sub>3</sub> detector used



Time Spectrum:  
LaBr<sub>3</sub> detector vs LaBr<sub>3</sub> detector

\*Custom order, custom firmware production available.

\*Please note that contents may change without prior notice.

[Website](#)

Manufacture of Radiation and Radioactivity measurement devices

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