

Digital Signal Processor for Gamma-ray APV8002

JAPAN MADE

VME

20200211

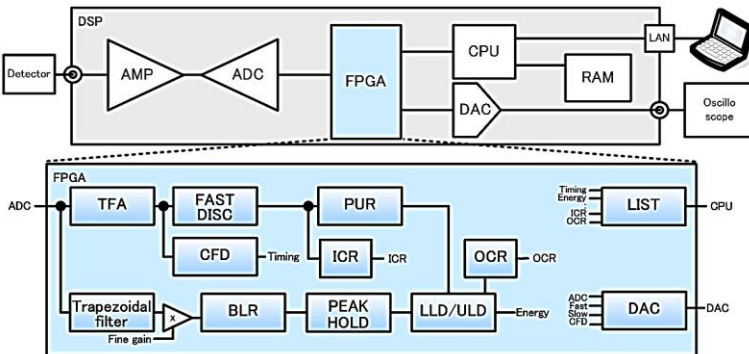
Gamma-ray spectrometer equipped with Digital Signal Processing (DSP) function. Output signal of HPGe detector preamp is processed by high speed ADC (100 MHz, 14-bit) and high-density FPGA. Analyzed data using histogram, event, and waveform applications is transferred to PC via Ethernet (TCP/IP or UDP). Application software is supplied as a standard accessory.

Features

- ◆ Energy resolution 1.7 keV @ 1.33 MeV
- ◆ Time resolution 0.625 ns (minimum unit)
- ◆ Output 100 kcps and over
- ◆ Measurement mode Histogram, List, and Waveform
- ◆ Functions Spectroscopy Amp, Timing Filter Amp, CFD, and DAC for input & filtered output
- ◆ Communication I/F TCP/IP
- ◆ Options UDP Data Communication, Dual-CH Coincidence and Rise Time Measurement
- ◆ Accessories Application software (Windows)
Instruction manual (Hardware / Software)

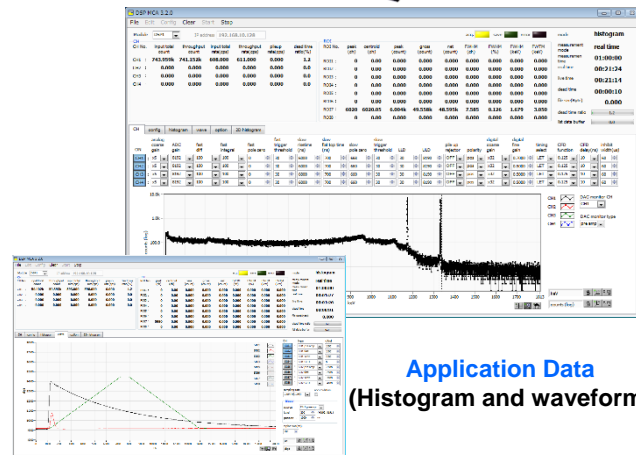


Block Diagram

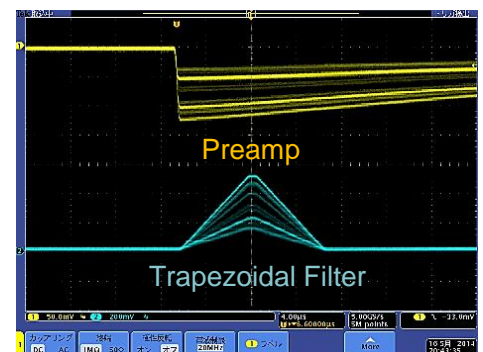


Specifications

Analog Input	2 channels, LEMO connector
Coarse Gain	x 2, x 4, x 10, x 20
Fine Gain	x 0.5 to x 1.5
ADC Input Signal	±1 V
Input Impedance	1 k ohm
Sampling Rate	100 Msps
Resolution	14-bit
ADC GAIN	8192, 4096, 2048, 1024, 512, 256 ch.
Trapezoidal Filter	0.4 to 16 μs (0.01 steps)
Digital Signal Processing	Baseline Restorer, Pileup Rejecter, CFD, etc.
External dimensions (Unit: mm)	Standard VME 6U 20 (W) x 262 (H) x 187 (D)
Weight	About 0.40 kg



Application Data
(Histogram and waveform)



DAC Output

Website



*Images is for illustration purpose.

*Please note that contents may change without prior notice.

Manufacture of Radiation and Radioactivity measurement devices

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