

Overview

This is a radiation measuring device equipped with a digital signal processing (DSP) function for gamma-ray spectroscopy.

The preamplifier signal of the germanium semiconductor detector is directly input, and digital signal processing is performed by a high-speed ADC (100MHz, 14-bit) and a **high-efficiency FPGA**.

This board can measure 32 channels at the same time and is ideal for larger systems. Equipped with Gigabit Ethernet, a large amount of list data can be transferred.

Features

- **Input: 32 CH. simultaneous sampling**

- **Throughput: 100 kcps or more**

- Mode: Histogram and List

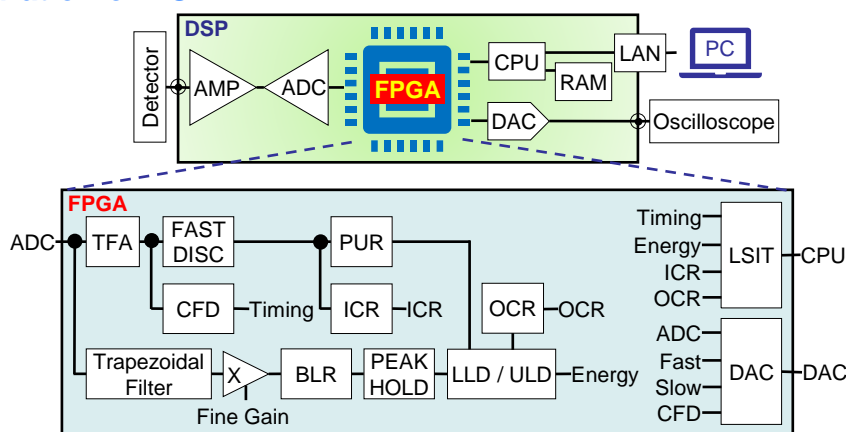
*Maximum transfer rate in list mode 20M Byte / sec. (when using 1CH)

- **Communication I / F: TCP/IP, Gigabit Ethernet**

- Software: Operation and Data acquisition

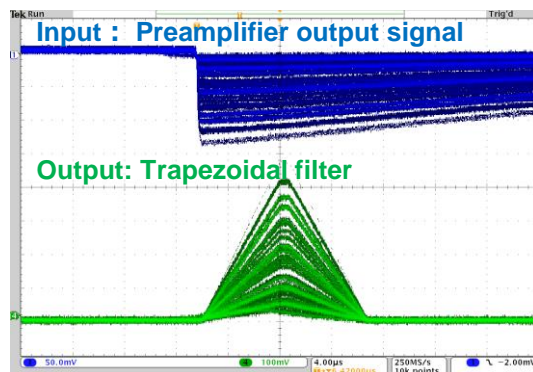
Included Instruction Manual of Hardware and Software

Configuration of DSP



Specifications

Analog Input	32 CH. *Included HIF-LEMO conversion cable Input impedance: 1kΩ
Course Gain	x1 and x2 *customizable
ADC	Input range: ±1 V 100 MHz, Resolution: 14-bit
ADC GAIN	4k, 2k, 1k, 512 and 256 ch.
Trapezoidal Filter	0.1 to 12 micro second *0.01 steps
Digital Signal Processing	Baseline Restorer, Pile-up Rejecter, CFD etc. *Set all parameters from PC
External terminal	CLOCK input, CLOCK output, GATE input, VETO input, CLEAR input, SYNC output
Communication I/F	TCP/IP, Gigabit Ethernet
Dimensions *unit: mm	VME6U: 20(W) x262(H) x187(D) Desktop: 300(W) x56(H) x335(D)
Weight	VME6U: Approx. 350g Desktop: Approx. 3360g



Preamplifier output signal and trapezoidal filter (DAC output)

Standalone type can also be selected.



*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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