

This is a radiation measurement device equipped with 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 using a high-speed ADC (100MHz, 14-bit) and highly integrated FPGA.

Capable of measuring 32 channels simultaneously, this module is ideal for larger systems.

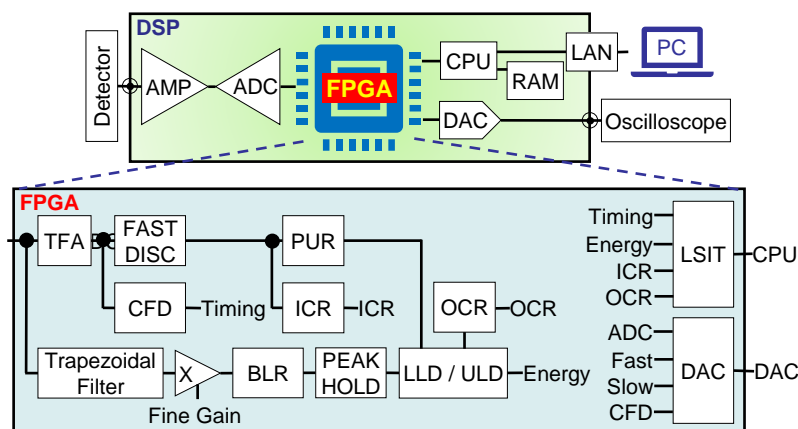
Equipped with Gigabit Ethernet, it is possible to transfer large amounts of list data.

Features

- Input 32 ch. simultaneously
 - Throughput 100 kcps and more
 - Mode Histogram and List
 - Communication I/F TCP/IP, Gigabit Ethernet
 - Accessories Data acquisition application software included
- *Maximum transfer rate in list mode: 20MByte/sec@1ch. using



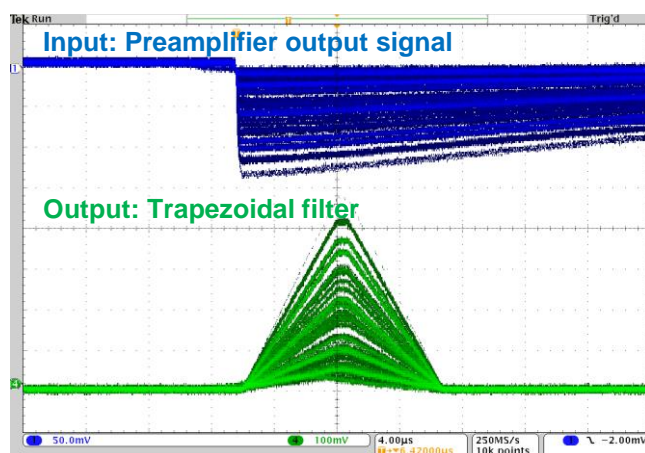
Diagram of DSP



CBL-HIF-LEMO16
*sold separately

Specifications

Analog Input	32 ch. Input impedance: 1kΩ Required HIF-LEMO conversion cable
Course Gain	x1, x2 *Can be changed upon request
ADC	Input signal: ±1V 100MSPS, resolution: 14-bit
ADC GAIN	4k, 2k, 1k, 512, 256ch.
Trapezoidal Filter	0.1 to 12 μs (0.01 step)
Digital Signal Processing	Baseline Restorer, Pileup Rejecter, CFD etc. *All parameter settings from PC
External terminal	CLOCK input, CLOCK output, GATE input, VETO input, CLEAR input, SYNC output
Communication I/F	TCP/IP, Gigabit Ethernet
Dimensions	W: 300 x H: 56 x D: 335 mm
Weight	Approx. 3360g



Preamplifier output signal and Trapezoidal filter
*DAC output

*Images is for illustration purpose.
*Please note that contents may change without prior notice.

