

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

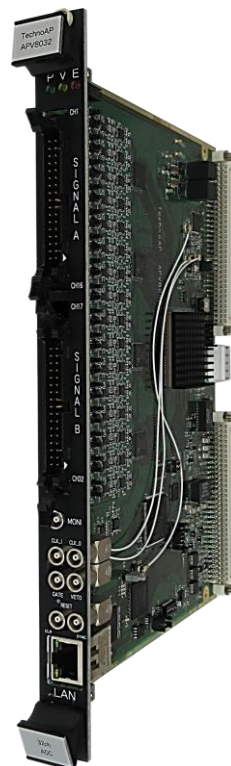
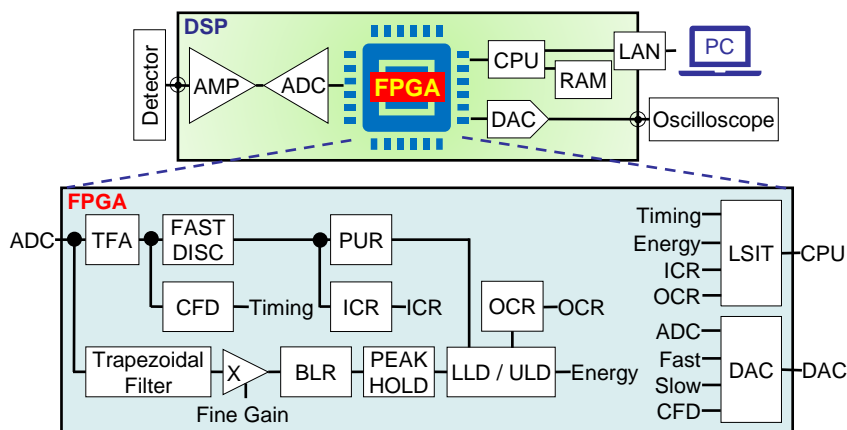
- **Input: 32 CH. simultaneous sampling**
- **Throughput: 100 kcps or more**
- **Mode: Histogram and List**

*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

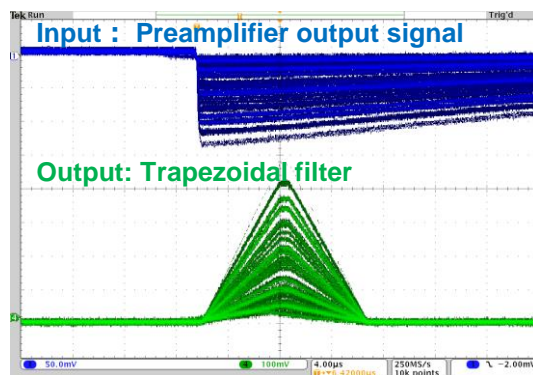


CBL-HIF-LEMO16

*Sold separately

Specifications

Analog Input	32 CH. Input impedance: 1kΩ Required HIF-LEMO conversion cable
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 microsecond *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	W:20 x H:262 x D:187 mm
Weight	Approx. 350g



Preamplifier output signal and trapezoidal filter (DAC output)

*Images is for illustration purpose.

*Please note that contents may change without prior notice.

