

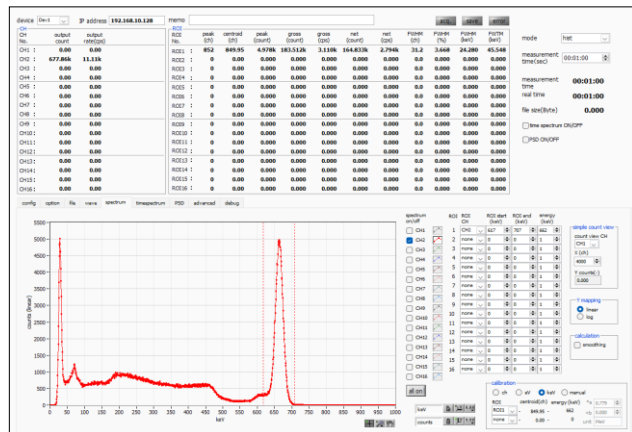
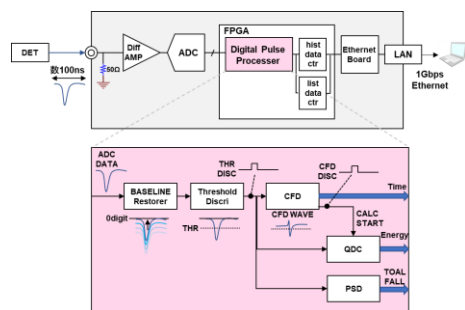
APU82516-14

This is a desktop-type measurement board equipped with up to 16 channels of 250MSPs, 14-bit ADCs and a digital pulse processor (DPP). It directly inputs signals like the anode output of a photomultiplier tube, performing digital processing for time (CFD-TDC), energy (QDC), and waveform discrimination (PSD). The measurement data is transferred to a PC via gigabit Ethernet. The system maintains time accuracy in list mode even when using multiple boards, making it ideal for large-scale systems.



Features

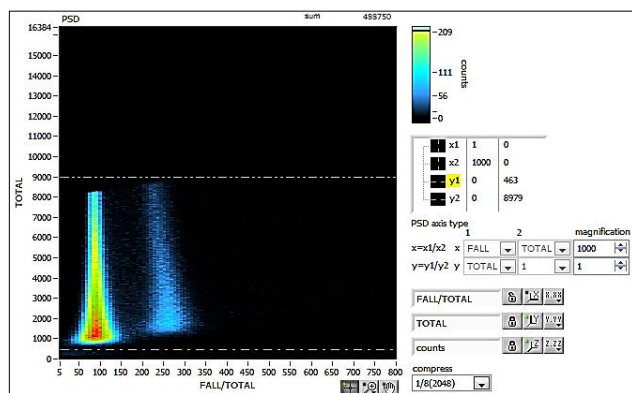
Target Detector	Scintillators (Plastic, LaBr3(Ce), Liquid, etc.), MPPC, Proportional counters, etc.
Time Resolution	Coarse 4ns, Fine 15.6ps
Throughput	> 2Mcps
Mode	Histogram, list, waveform readout
Optional	LIST-WAVE etc.



Histogram Mode

Specifications

Analog input	16 channel, LEMO connector The range $\pm 1V$, Input impedance 50 Ω
Analog Gain	x1, x0.75, x0.5, x0.25, x0.15
ADC	250MSPs, 14bit
Digital Signal Processing	QDC, CFD, TDC, PSD etc.
External control	SYNC output, SYNC input, CLK output, CLK input, VETO input, GATE input, LEMO connector
Commercial	Gigabit Ethernet, TCP/IP, and UDP.
Power Consumption	AC100V(0.4A max)~AC240V(0.15A max), 50/60Hz
Dimensions, Weight	300(W) x 56(H) x 335(D) mm excluding protrusions Approx. 3100g.
Applications	Data measurement control.



PSD

Particle discrimination from the readout list data.

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

