Japan's leading manufacturer of precision radiation measuring instruments

TechnoAP

Digital Signal Processor (DSP)

Input preamplifier signal from Ge semiconductor detector

Digital Pulse Processor (DPP)

Input anode signal from PMT of scintillation detector

Real-time processing

DSP:

Analog Input: **16 channels** (Range: ±2 V)

ADC: **100 MHz, 16-bit**

Energy Resolution: **1.70 keV@1.33 MeV**

Output: **100 kcps or more** / channel

DSP: **Trapezoidal Filter, Baseline restorer, Pileup reject, CFD**

Optional Mode: **Coincidence, Rise-wave**

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

Size: VME6U

Model: APV8016A

DPP:

Analog Input: **8 channels** (Range: ±1 V)

ADC: **1 GHz, 14-bit**

Time Resolution: **Coarse 1 nano seconds**

Fine: 3.9 pico seconds

Output: **1 Mcps or more** / channel

Mode: Histogram, List (TDC + QDC), Waveform

Optional Mode: **List-wave, PSD, Coincidence**

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

Size: VME6U

Model: APV8108-14

The board is provided with firmware and software. The data acquisition software runs under Windows OS and comes with an easy-to-use graphical user interface.

Multi Channel Analyzer (MCA)

MCA with Successive-approximation ADC
Analog Input: **4 channels** (Range: 0 to +10 V)
ADC gain: **16384**, 8192, 4096, 2048, 1024, 512 Ch.

COMPACT 70x160x20mm

LIST MODE

USB bus power
Model: APG7400A

MCA with Spectroscope amplifier
Analog Input: **1 channel** (Range: ±1.5 V)
ADC gain: **16384**, 8192, 4096, 2048, 1024, 512 Ch.

Lightweight 230 g

Semi-Gaussian waveform shaping

USB bus power
Model: APG7305A

The software is written in LabVIEW, and is also provided as source code, allowing the advanced user to customize it.

We are specialists in Radiation and Physical measurement.