

Real-time processing with high-performance FPGA

Digital Signal Processor (DSP)

Model: APV8016A

For experiments using

semiconductor detectors

Size: VME6U

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**

Suitable for multi-channel systems

DSP: Trapezoidal Filter, Baseline restorer,

Pileup reject, CFD

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

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



Digital Pulse Processor (DPP)

Model: APV8108-14

For experiments using

fast scintillation detectors

Size: VME6U

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**

Support List-Com mode

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

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

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



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.

CUSTOM MADE for your needs. Contact us!

Multi Channel Analyzer (MCA)

Model: APG7400A

MCA with Successive-approximation type 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

Output: **50 kcps or more / channel**

Deadtime: **1.5 microseconds**

Multi Channel Analyzer (MCA)

Model: APG7305A

MCA with Spectroscopy 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

Shaping time: **0.25 to 16 microseconds**

Output: **50 kcps or more / channel**

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

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

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