

Real-time processing with high-performance FPGA

DPP: **1Gsp**s, 14-bit

Time resolution: Coarse-1ns, Fine-3.9ps

8 channels input

APV8108-14



4 channels input

APV8104-14



DPP: **500M**sps, 14-bit

Time resolution: Coarse-2ns, Fine-7.8ps

16 channels input

APV8516-14



8 channels input

APV8508-14



DPP: **250M**sps, 14-bit

Time resolution: Coarse-4ns, Fine-15.6ps

16 channels input

APV82516-14



Output:

1 Mcps or more / channel

*Histogram mode

Functions:

Digital-CFD, -TDC, -QDC, -PSD

Communication I/F:

TCP/IP, Gigabit Ethernet

Data transfer:

30 MByte per sec. or more

Pursuit of DSP circuit possibilities

DSP: 100Msps, **16-bit**

Energy resolution: 1.70keV@1.33MeV

16 channels input
APV8016A



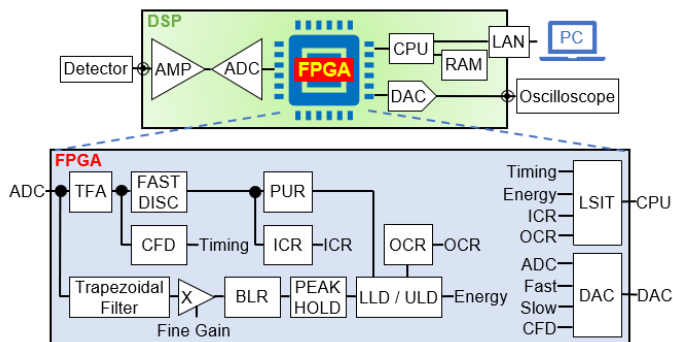
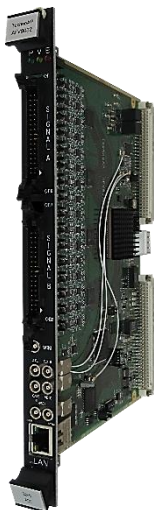
8 channels input
APV8008A



DSP: 100Msps, **14-bit**

Energy resolution: 1.70keV@1.33MeV

32 channels input
APV8016A



Hybrid: **1Gsps-DPP** + 62.5sps-DSP & **500Msps-DPP** + 62.5Msps-DSP

DPP: **2 channels** input
1Gsps, 14-bit
DSP: **4 channels** input
62.5sps
APV8M24



DPP: **4 channels** input
500Msps, 14-bit
DSP: **4 channels** input
62.5Msps
APV8M44

