Digital Pulse Processors

Instruments That Advance The Art

Product Summary

Digital Pulse Processors for Gamma and X-ray Spectroscopy

Gamma-ray Spectroscopy

Model	Format	ADC	Applications	More Info
Pixie-Net 	4-channel Stand-alone box with built-in Zynq processor.	250 MS/s 12-bit	• Gamma spectroscopy. • Pulse Shape Analysis. • Coincidence Acquisition. • Fast Timing with scintillators. • Distributed DAQ applications. • Remote monitoring.	https://xia.com/pixie-net.html
Pixie Hybrid 	4-channel PXI card. Used with PXI or PXI-Express Hybrid crate.	250 MS/s 16-bit	• High precision gamma spectroscopy with HPGe. • Expandable to high channel counts. • Pulse Shape Analysis. • Coincidence Acquisition. • Fast Timing.	https://xia.com/Pixie-Hybrid.html
Pixie-16 	16-channel PXI card. Used with custom PXI-Express crate.	100-500 MS/s 14-16 bit	• High precision gamma spectroscopy with HPGe. • Expandable to high channel counts. • On-board multiplicity gating. • Fast Timing.	https://xia.com/dgf_pixie-16.html
microDXP 	Credit card size single-channel spectroscopy board	40 or 80 MS/s 14-bit	• Embedded/ portable and handheld spectrometers. • Low power systems. • Nuclear security and monitoring. • Scintillators & solid state detectors. (Use microDGF for HPGe)	https://xia.com/microdxp.html
microDGF 	Credit card size single-channel spectroscopy board for HPGe detectors	40 or 80 MS/s 14-bit	• Variant of microDXP for HPGe • Embedded / compact systems. • Low power. • Nuclear security and monitoring. • Custom High Energy Physics detectors.	https://xia.com/microdgf.html

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Digital Pulse Processors for Gamma and X-ray Spectroscopy

X-ray Spectroscopy

Model	Format	ADC	Applications	More Info
microDXP 	Credit card size single-channel spectroscopy board	40 or 80 MS/s 14-bit	• Embedded/ portable and handheld XRF spectrometers. • Low power systems. • SDD, PIN diodes. • Customization for special applications.	https://xia.com/microdxp.html
Mercury 	Single-channel stand-alone box with USB interface.	50 MS/s 14-bit	• X-ray spectroscopy. • X-ray Microanalysis • Synchrotron beamline research: XAS, XAFS, EXAFS. • 2-D Fast mapping. • OEM card for embedded applications.	https://xia.com/dxp_mercury.html
FalconX8 	1-8 channel stand-alone box, or expandable rack option for large systems.	250 MS/s 16-bit	• Extreme high rate x-ray spectroscopy, with output count rates up to 4 Mcps per channel. • Synchrotron beamline research: XAS, XAFS, EXAFS. • Elemental fast mapping.	https://xia.com/falconx.html

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