

XGLAB
X and Gamma Ray Electronics



VERDI

Versatile Read-out for
Detectors Integration



VERDI - A versatile read-out ASIC

An 8-channel, compact and flexible read-out system for many kinds of detectors, designed for X and Gamma ray applications



Charge Sensitive Preamplifier

8 independent CSA input stages designed to fit from 2mS to 45mS transconductance FETs. Positive and negative polarity supported. CSA adjustable sensitivity.



Shaping Amplifier

8 shaping times (from 250ns to 8us). Baseline Holder fits wide range of detector leakage currents.

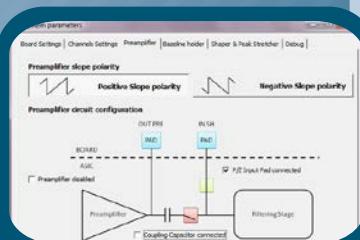
Other features

8 independent analog outputs or single multiplexed output. Power saving functionalities (channels shut down). Advanced triggering system for pixellated detectors (Anger camera mode).

Continuous and pulsed reset supported, suitable signal for DPP available, shaping amplifier output or peak stretcher value available on multiplexer or independent outputs.

Real time trigger available for simple digital read-out (counting applications).

Several configurations programmable by software via USB connection.



Interactive software interface

Family of VERDI-based systems

Compact plug-in modules based on VERDI ASIC

AIDA

Multi-channel back-end read-out electronics

8 independent analog inputs from external preamplifier (PMT, SiPM or CUBE read-out detectors). Power saving functionalities for portable applications. Enables Modules Daisy chain (up to 256 modules).



TRAVIATA

Complete multi-channel read-out electronics

8 independent analog inputs from detectors with JFET readout. Power saving functionalities for portable applications. Enables Modules Daisy chain (up to 256 modules).



Modules can be USB powered (+5V, <500mA).

Complete GUI software interface, DLL and integration examples available.

Main functionalities: wave-scanner, multi-element 4k MCA, list mode, low-power counter.



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