

A5202/DT5202

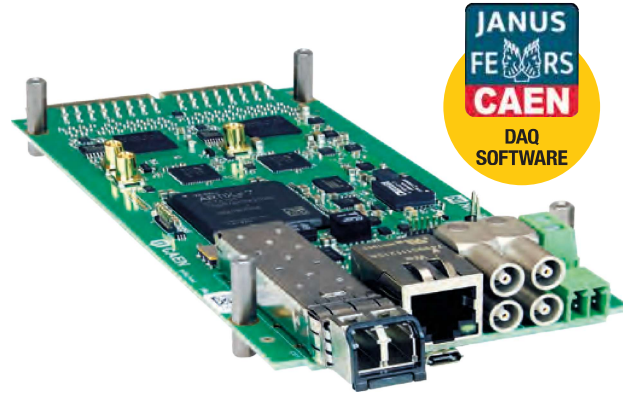
64 CH READOUT AND BIAS FOR SILICON PHOTOMULTIPLIERS



A5202



DT5202



Ideal to read out large arrays of SiPM. Full compatibility with 64-pixel matrices

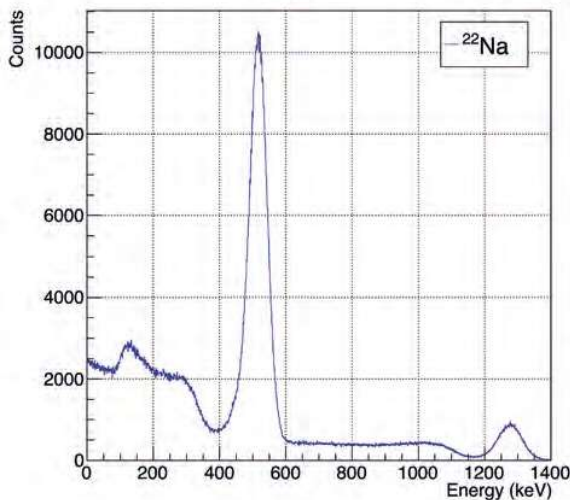
The A5202 is a small board (~ 7 cm x 17 cm) housing two Citiroc-1A chips (64 readout channels). Each readout channel is composed of a Preamplifier, a Slow Shaper with pulse height detector, and a Fast Shaper followed by a discriminator. Pulse height values from each Citiroc-1A are converted sequentially by a 13-bit ADC to perform energy measurements. The 64 channel self-triggers (discriminator outputs) can be used for counting, time stamping, to determine the Time over Threshold (ToT) information, and also to generate the board bunch trigger that starts the ADC conversion. The A5202/DT5202

board also integrates the A7585D power supply module necessary for biasing the SiPMs, and the interfaces for readout, synchronization, and control.

The Janus 5202 software, allowing to completely manage the A5202/DT5202 module and the data acquisition, is also provided for free by CAEN.

The offer is completed by a useful set of cables and adapters to connect different kind of SiPMs and possibly remote them, to enable easy fitting into any real setup.

LYSO



Landau distribution of cosmic rays measured with the A5202 using coincidence trigger logic.

ACCESSORIES

Input adapters:

- A5250 - 2.54 mm pin header adapter (included with DT5202 model)
- A5251 - Hamamatsu MPPC adapter
- A5253 - 3-pin adapter for single-pixel SiPMs
- A5254 - SensL ArrayJ adapter

Cables:

- A5260 - Remotization cable for FERS-5200 boards - 50 cm
- A5260B - Remotization cable for FERS-5200 boards - 100 cm
- A5261 - SiPM remotization cable (70 cm) for A5253

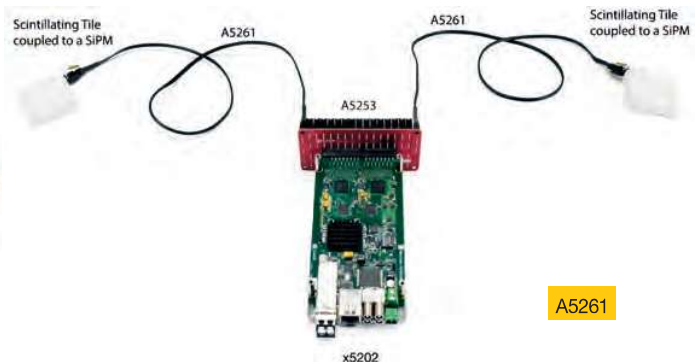
FAN

- A5270 - FERS cooling fan

REMOTIZATION KITS AND ADAPTERS available for maximum flexibility!



A5260



A5261