

NEWS

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Vertilon Introduces SIB1256 for SensL SPMArray4 Silicon Photomultiplier

New Sensor Interface Board Demonstrated at IEEE NSS-MIC Conference in Knoxville, Tennessee Supports 64 Channels and Holds up to Four SensL SPMArray Devices

WESTFORD, MA (November 2, 2010) – Vertilon Corporation (<http://www.vertilon.com>), a leader in high performance charge integrating and photon counting data acquisition systems for optical sensors, announced today that it has introduced the SIB1256 sensor interface board for the SensL SPMArray4 sixteen channel silicon photomultiplier. The new product includes all of the necessary electrical and mechanical hardware to fully support up to 64 input channels from four SPMArray4 devices. Designed for use with Vertilon's PhotoniQ charge integrating DAQ systems, the SIB1256 is extremely well suited for applications that include PET, SPECT, gamma cameras, and radiation detection. Four SPMArray4 devices mount to the [SIB1256](#) where their 64 anode signals are routed to connectors that interface to charge integrating preamplifiers in the PhotoniQ DAQ. Bias to SiPM arrays is provided by four on-board adjustable high voltage bias supplies that include a voltage trimming function for gain matching between the arrays. A special current-sense output from each bias supply is summed together to represent the total AC charge signal measured by all four SiPM arrays. This signal is fed into a user-programmable leading edge discriminator that generates a trigger signal when an event exceeding a preset energy threshold is detected on any of the SPMArray4 devices. The PhotoniQ graphical user interface provides a convenient means to configure all adjustable parameters on the [SIB1256](#) and thus optimize its use for the intended application. "The introduction of the SIB1256 demonstrates Vertilon's continuing commitment to silicon photomultipliers," said Vincent Palermo, President of Vertilon. "The unique advantages that these devices offer are evident by their growing use in more and more applications. Vertilon strongly believes that the market for silicon photomultipliers will continue to expand and for this reason we continue to develop products to support these exciting new devices." The SIB1256 is in production and available now.

About Vertilon Corporation (<http://www.vertilon.com>)

Vertilon manufactures advanced products for markets utilizing multi-anode photomultiplier tubes, avalanche photodiode arrays, silicon photomultipliers, and other multi-element charge-based sensors. Vertilon's core product line is the PhotoniQ, a family of high performance multi-channel data acquisition systems that interface to optical sensors and collect and process their output signals. Over the last seven years, Vertilon's PhotoniQ products have been used throughout the world by leading universities, government laboratories, and corporate R&D groups in applications that include particle physics, flow cytometry, bioaerosol detection, SPECT, positron emission tomography (PET), gamma cameras, DNA sequencing, and confocal fluorescence microscopy.

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