

Programmable, High Channel Count Analog-to-Digital Converter (ADC)



- Compact housing and customizable input connectors for easy instrument integration
- Streaming ADCs for continuous data acquisition (no buffering), faster transmission and up to 50 fps
- Internal trigger generator allows external device triggering at defined frequencies. Continuous mode sends trigger signal as soon as previous acquisition is complete (highest frame rate)
- Integrated amplifier chips with digitally controlled gain
- Optical and electrical trigger inputs
- Programmable Gain and SDK supports a wide range of data acquisition configurations
- Two optional breakout boards with 128 industry standard SMA connectors for evaluation, testing and development

Channels	Channels per ADC	256	
ADC	Programmable Gain ⁽¹⁾	12 to 51 dB	(1) 12 to 45 dB MODE2 available.
	Bandwidth @ -3 dB ⁽²⁾	50 kHz to 12.5 MHz	(2) Low Pass programmable filters available. 50 kHz to 25 MHz MODE2 available.
	Resolution	12-bit	(3) Max frame/trigger rate can be higher depending on PC specs. Max rate limited up to 2 boards connected in parallel.
	Sampling Rate	40 MSPS	(4) Per frame per channel
	Max Trigger / Frame Rate ⁽³⁾	240 Hz / fps	
	Max Points ⁽⁴⁾	4096	



1. Two sets of programmable electrical trigger input and output (isolated SMA connectors)
2. Two optical trigger inputs for connecting 2 mm patch fibers allow precise triggering from the end-user's pulsed lasers
3. USB 3.0 port for high data transmission to end-user or PhotoSound provided computer
4. Status and diagnostic LEDs
5. 12VDC 5A (power supply included)
6. Samtec SEAFP series input connector for third-party preamplifier. Optional SMA breakout board available for evaluation, testing and development. **Custom connectors and pin mapping to match existing third-party preamplifier can be substituted in place of default connectors.**

All dimensions approximate in inches (cm).

Computer* (optional)	Software
4+ Core i7 Processor Nvidia Graphics Card for CUDA only 16+ GB DDR4 Memory 500+ GB PCIe Solid-State Drive Windows 10 64-bit	Windows 7/10 64-bit drivers Standalone DAQ Application Software Development Kit (LabView) TDMS data output

* End-user or PhotoSound provided



Optional SMA inputs on a breakout board for unit evaluation, testing and development

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