PhotoSound®

LEGION ADC256

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

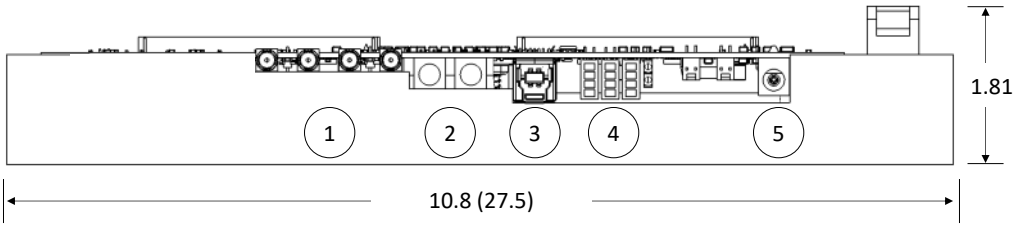
- Compact housing and customizable input connectors for easy instrument integration
- Streaming ADCs for continuous data acquisition (no buffering), faster transmission and up to 50 fps
- Internal trigger generator allows external device triggering at defined frequencies. Continuous mode sends trigger signal as soon as previous acquisition is complete (highest frame rate)
- Integrated AFE 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

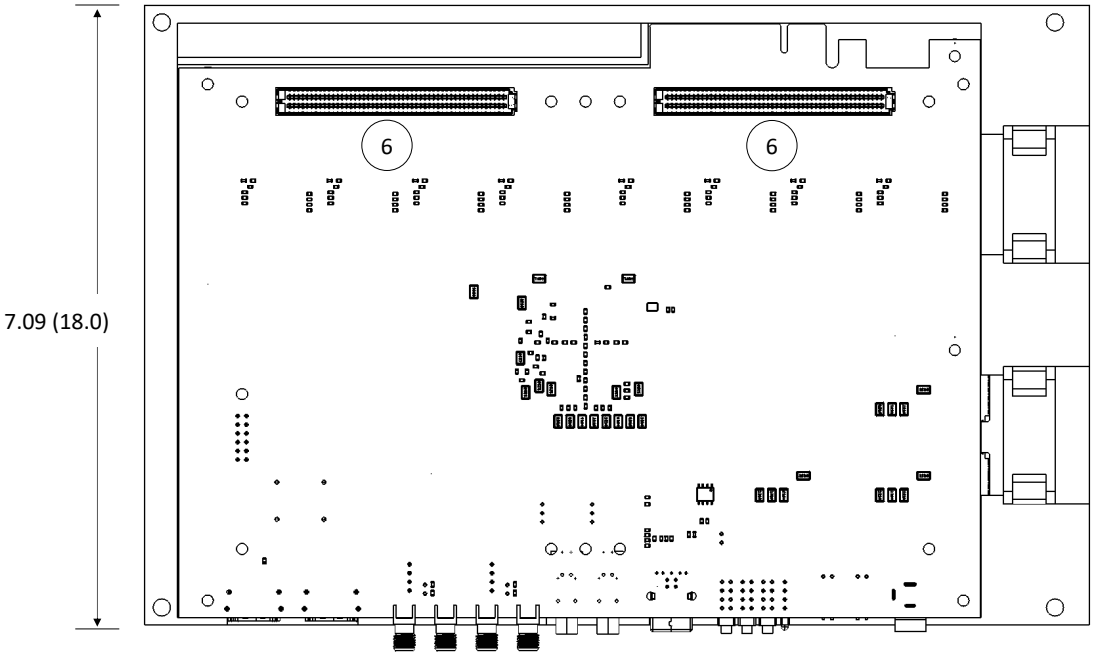
Channels	**Channels per ADC**	256
ADC	**Programmable Gain**	12 to 51 dB
	Bandwidth @ -3 dB (1)	50 kHz to 12.5 MHz
	Resolution	12-bit
	Sampling Rate (2)	38 to 40 MSPS
	Max Trigger / Frame Rate	50 Hz / fps
	Max Points (3)	4096

(1) Low Pass programmable filters available

(2) 38.5 MSPS default. Up to 40 MSPS with custom FPGA chip

(3) Per frame per channel





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 2.5A barrel 2.35 x 0.7 mm power connector (power supply included)
6. Samtec SEAFP series input connectors for third-party probe or preamplifiers. Optional SMA breakout boards available for evaluation, testing and development. **Custom connectors and pin mapping to match existing third-party probes 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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