PhotoSound®

Imaging and Data Acquisition Solutions

FLASH ADC32

Programmable, High Sampling and High Frame Rate 32-Channel Analog-to-Digital Converter (ADC)

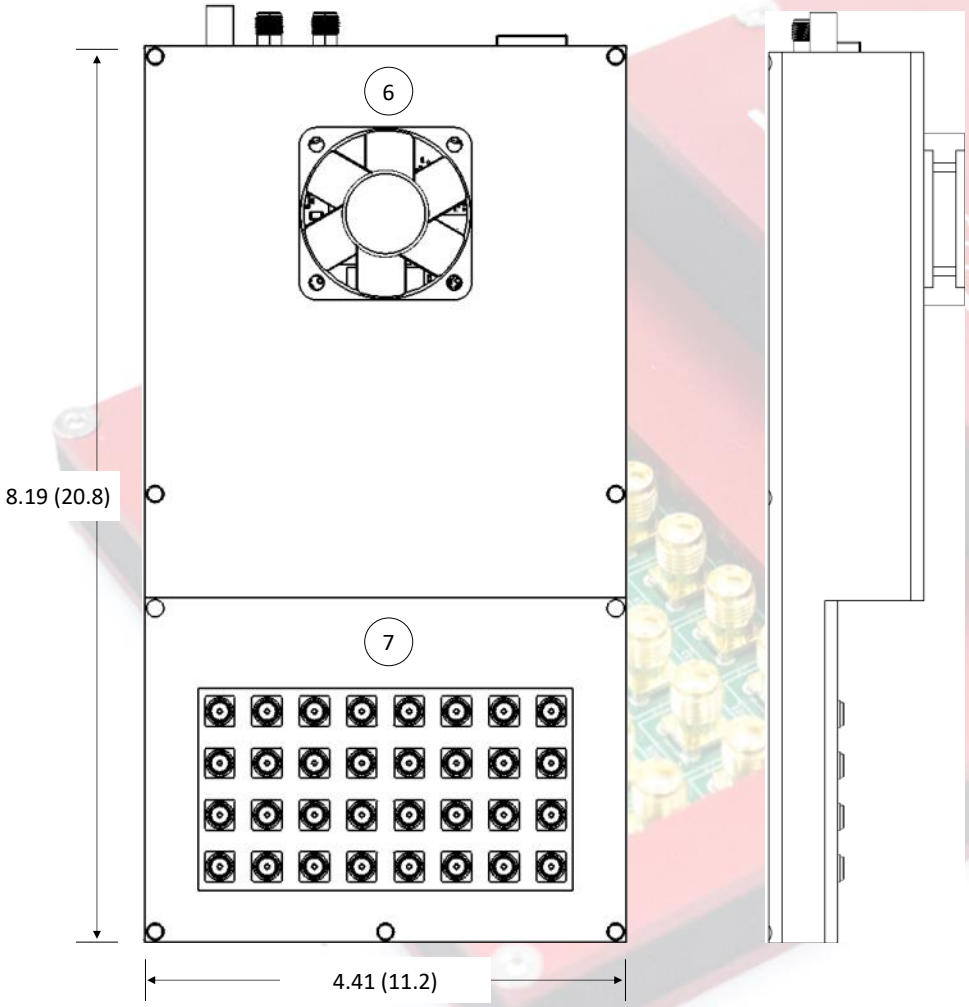
- Compact housing and SMA input/output breakout board for easy instrument integration
- Very fast data transmission with up to 6000 fps and 100,000 data points per frame per channel
- Internal trigger generator allows external device triggering at defined frequencies. Continuous mode sends trigger signal 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

Channels	**Channels per ADC**	32
ADC	**Programmable Gain**	-4 to 54 dB
	Bandwidth @ -3 dB (1)	40 kHz to Nyquist
	Resolution	12/14-bit
	Sampling Rate	76.9/65 MSPS
	Max Trigger / Frame Rate (2)	6000 Hz / fps
	Max Points (3)	100,000

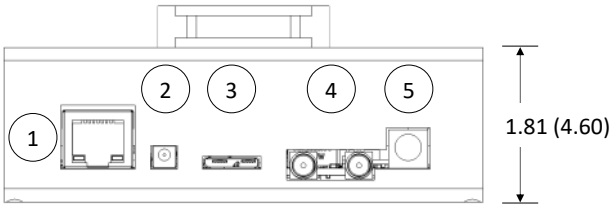
(1) Low Pass programmable filters available

(2) 6000Hz with 1000 points 12-bit

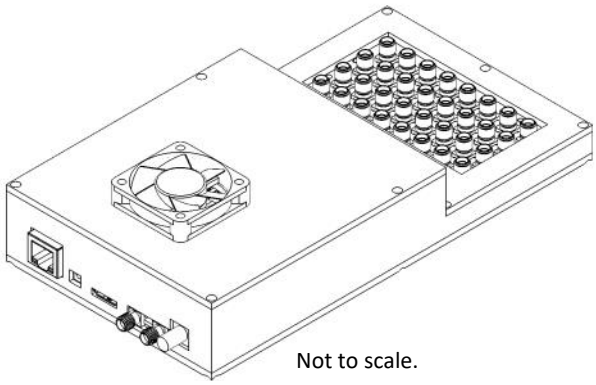
(3) 100,000 points per frame per channel with 65Hz trigger 12-bit



1. RJ45 port with status and diagnostic LEDs for troubleshooting
2. 12VDC 2.5A (power supply included)
3. USB 3.0 port for high data transmission to end-user or PhotoSound provided computer
4. Programmable electrical trigger input and output (isolated SMA connectors)
5. Optical trigger input for connecting 2 mm patch fiber allows precise triggering from the end-user's pulsed laser
6. Silent operation cooling fan and heatsink mounted directly on ADC
7. Industry standard SMA input connectors for third-party preamplifier.



All dimensions approximate in inches (cm).



Not to scale.

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

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