

Build the best data acquisition platform powered by PhotoSound®

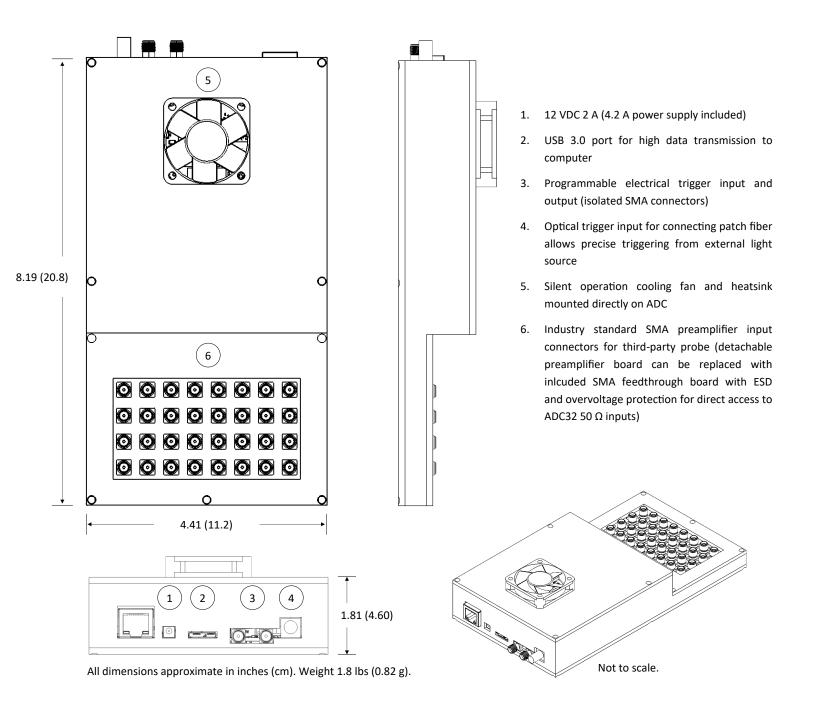
## FLASH ADC

## 32-Channel Analog-to-Digital Converter



- Compact, external USB housing for easy instrument integration
- Industry standard SMA input connectors
- Continuous analog-to-digital conversion with no buffering or multiplexing allowing faster data transmission and trigger rates
- Integrated amplifier chips with digitally controlled gain
- Generate trigger output at defined rate or repetition of external trigger input with programmed delay.
- Sync external hardware with data acquisition using electronic or optical IN and OUT ports located on the unit housing
- Includes standalone control software based on the MATLAB<sup>®</sup> computing environment and backend SDK written in C++ compatible with many frontend languages such as LabView, MATLAB<sup>®</sup> and Python<sup>TM</sup>

Channels <sup>(1)</sup>	32	(1)	All channels fully parallel
Programmable Gain <sup>(2)</sup>	44 to 94 dB	(-)	(simultaneous data acquisition without multiplexing)
Bandwidth @ -6 dB <sup>(3)</sup>	16 kHz to 35 MHz	(2)	
Sampling Rate	80 MSPS		depends on probe capacitance)
Resolution	12-bit	(3)	Low Pass programmable filters available
Max Trigger / Frame Rate <sup>(4)</sup>	6000 Hz / fps	(4)	6000Hz sustained with 1000 points 12 -bit (limited by USB3 data bandwidth)
Max Points <sup>(5)</sup>	80,000	(5)	Per frame per channel
Input Impedance <sup>(6)</sup>	50 kΩ	(6)	Measured using signal generator and
Input Connector	SMA		oscilloscope with 50Ω input



<u>Minimum PC Requirements</u>: 6th generation Genuine Intel<sup>®</sup> quad-core processor, 8 GB DDR4 RAM. USB3 port on Intel<sup>®</sup> host controller, 500 GB PCIe 3.0 x4 SSD w/ heatsink, Microsoft Windows 10 64-bit Home

<u>Recommended PC Requirements</u>: 9th generation Genuine Intel<sup>®</sup> hexa-core processor or better, 16 GB DDR4 RAM, USB3 port on Intel<sup>®</sup> host controller, 1 TB PCIe 3.0 x4 SSD w/ heatsink (e.g. Samsung 970 Pro), Microsoft Windows 10 64-bit Pro

Version DAQ32.004.0220 © 2020 Trademarks are the property of PhotoSound® All specifications are subject to change without notice. *FLASH*<sup>™</sup> DAQ32 is classified EAR99 and does not require an export license.

**PhotoSound Technologies, Inc.** | Imaging and Data Acquisition Solutions

9511 Town Park Drive | Houston, TX 77036 USA

www.pst-inc.com | info@pst-inc.com | 713-401-9407

