

## 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) and faster transmission
- 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
- Optional test and evaluation breakout boards with industry standard SMA connectors for all channels

<b>Channels</b>	<b>Channels per ADC<sup>(1)</sup></b>	128	
	<b>Programmable Gain<sup>(2)</sup></b>	12 to 51 dB	
	<b>Analog Bandwidth @ -6 dB<sup>(3)</sup></b>	12.5 kHz to 25 MHz	
<b>ADC</b>	<b>Resolution</b>	12-bit	
	<b>Sampling Rate</b>	40 MSPS	
	<b>Max Trigger / Frame Rate<sup>(4)</sup></b>	480 Hz / fps	
	<b>Max Points<sup>(5)</sup></b>	4096	

(1) Upgradeable to 256 channels

(2) Depends on mode selection. Add 40 dB preamplifier gain.

(3) Might be limited by filter, mode, and gain settings.

(4) Limited to 240 Hz after 256-channel upgrade. Actual max frame/trigger rate might be limited by PC specs.

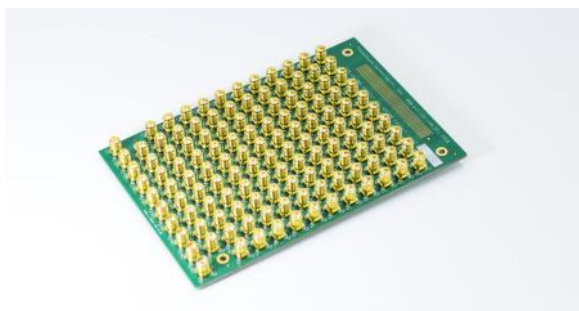
(5) Per frame per channel



All dimensions approximate in inches (cm).

Computer* (optional)	Software
4+ generation 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

Version ADC128.003.0319 © 2019

Trademarks are the property of PhotoSound®

All specifications are subject to change without notice.

LEGION ADC128 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