

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

Channels	Channels per ADC	256	
ADC	Programmable Gain ⁽¹⁾	6 to 51 dB	(1) 12 to 45 dB MODE2 available.
	Analog Bandwidth @ -6 dB ⁽²⁾	12.5 kHz to 25 MHz	(2) Depends on mode selection.
	Resolution	12-bit	(3) Actual max frame/trigger rate might be limited by PC specs.
	Sampling Rate	40 MSPS	(4) Per frame per channel
	Max Trigger / Frame Rate ⁽³⁾	240 Hz / fps	
	Max Points ⁽⁴⁾	4096	



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 ADC256.003.0319 © 2019

Trademarks are the property of PhotoSound®

All specifications are subject to change without notice.

LEGION ADC256 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