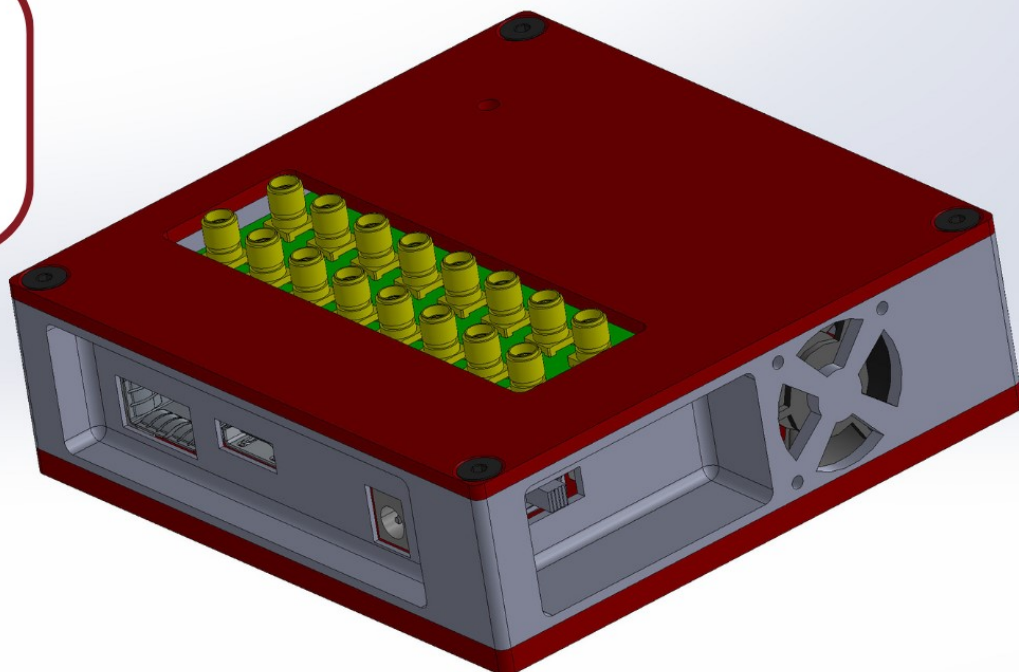




FLASH 16 ADC

16-Channel Amplified DAQ

**PRE-ORDER
NOW!**



The FLASH 16 ADC is a complete data acquisition unit optimized for photoacoustic microscopy and scanning applications as the highest priority.

The unit provides close to 100% duty cycle, a 125MS/s sampling rate, as well as 16 bit accuracy and a preamplifier. Key features include noise reducing variable gain amplifier, low power consumption, and compact size.

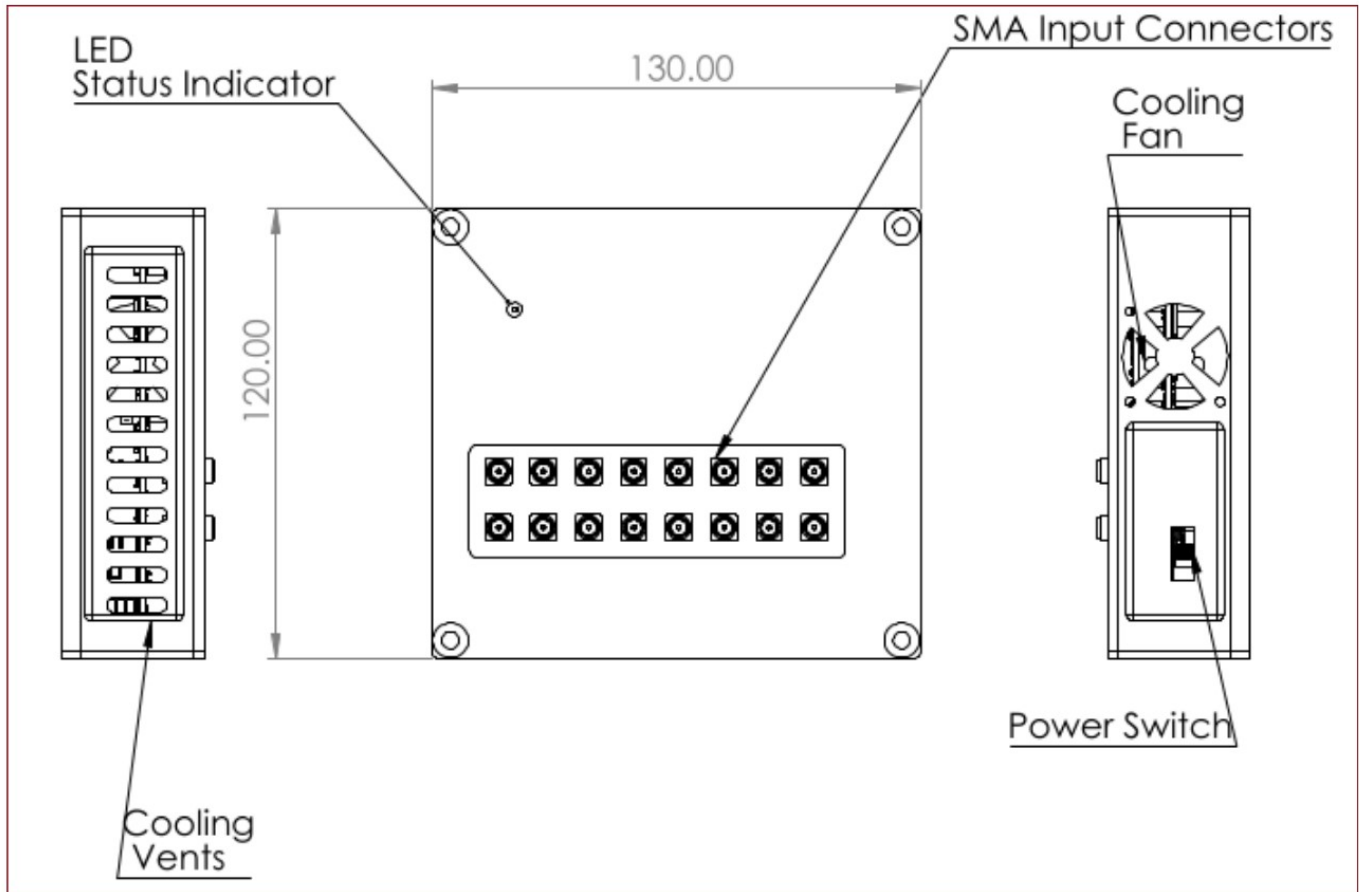
PhotoSound PCIe receiver PC card with:

- 2x QSFP+ (custom configurations enabled) to PCIe Gen4 x4
- XCAU15P-2FFVB676 Artix-Ultrascale+ with DDR buffer
- Electrical Trigger in/out without delay
- Optical trigger in

Note:

QSFP+ physical interface on Flash16 ADC has custom operation mode not supported by third party QSFP PCIe cards

**16-channel amplified data acquisition system
based on a Texas instrument AFE58JD48
ultrasound analog front end with a sampling rate of 125MS/s at 16 bit**



- **ADC based on AFE58JD48 16-Bit, 125 Msps, gain 9 to 48 dB**
 - Maximum analog input amplitude: 2 Vpp (power ON), Linear input amplitude: 0.37/0.5/0.71 Vpp
 - Low-noise amplifier (LNA) with 50 Ω passive input termination, AC coupling
 - Programmable gain: 21 dB, 18 dB, and 15 dB
 - Attenuation range: 0 - 36 dB
 - Programmable gain amplifier (PGA): 18 dB-27 dB in Steps of 3 dB
 - 3rd-Order programmable Low-pass filter (LPF) 10 - 60 MHz
- Optional 34 dB preamplifier with 2.2 M Ω input resistance and analog bandwidth exceeding 60 MHz
- PC connection via QSFP+ optical port (custom configuration).

