OpenSonics

COMPACT INNOVATION

- ✓ FOR ACADEMIC RESEARCH AND MEDICAL DEVICES (OEM)
- ✓ FULL OPEN PLATFORM AND ERGONOMIC DESIGN
- ✓ SUPPORTING MULTIPLE SOFTWARE LANGUAGES

Open Pilot+

PULSER

Pulser Type 1	8 Pulsers up to 400 V (Negative Square)
Pulse Type 2	8 Pulsers Bipolar ± 100 V (AWG in option: burst, gaussian, chirp)
Pulse Width	30 to 1000 ns
Pulse Width Resolution	4 ns
Maximum PRF	20 kHz (higher option)

RECEIVER

Receiver #	8 parallel channels
Receiver Resolution	27 bits (no analog gain required)
Receiver Gain Range	162 dB at once
Receiver Bandwidth	0.3 to 20 MHz (50 kHz optional)
Receiver Input	± 10 V

SIGNAL PROCESSING

Ascan Resolution	8, 16, 27 bits, linear and log scale
Ascan Sampling	100 MHz
Decimation	50, 33, 25, 20, 16.65, 14.28, 12.5...MHz

Photos and specifications not contractual.

COMMUNICATION

Communication Link	LAN 1 Gb (TCP/IP)
Data Flow	100 MB/s

SYSTEM

Configurations	8 parallel channels per unit
Channel Mode	Full Parallel and Multiplexed
Ultrasound Imaging Modes	Pulse-Echo (B-mode), Doppler, STA, etc...
Dimensions	240 x 140 x 45 mm 9.45 x 5.51 x 1.77 in.
Weights	< 1.5 Kg / 3.3 lb
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, Python, C#, LabVIEW, MATLAB, etc...
Operating Systems	Windows, Linux

I/O MANAGEMENT

Synch In	Pulse Trig, Sequence Trig, Encoders
Synch Out	Pulse Trig, Sequence Trig, Output
Pin Assignments	Programmable
Number I/O	8 Inputs