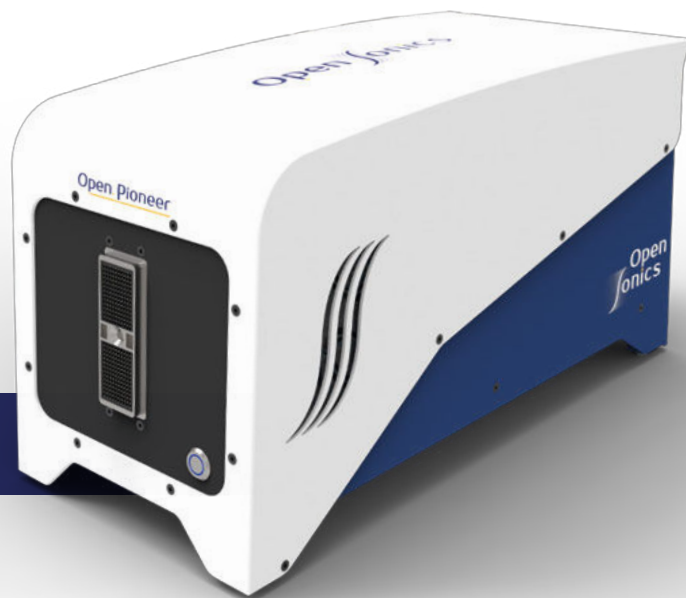




PIONEERING EXCELLENCE

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

Open Pioneer

PULSER

Voltage Range	From 10 to 200Vpp
Waveform Type	Sine, Burst, Rectangular, Gaussian, Chirp, Custom
Channel Configuration	Each channel can be set independently
Extended Transmit	Up to 1ms
Signal Bandwidth	100kHz to 15MHz
Dynamic	> 40dB at 5MHz
Power	30W (Option for 50W) per batch of 64 channels
Output impedance	< 7 Ohms
Maximum PRF	20kHz

RECEIVER

Receiver Resolution	14 bits per channel
Receiver Gain Range	110 dB
Receiver Bandwidth	0.3 to 20 MHz (50 kHz optional)
Receiver Focusing Delay	0 to 40 μ s

SIGNAL PROCESSING

Ascan Resolution	8, 14, 16 bits
Ascan Sampling	50 MHz
Decimation	50, 25, 12.5, 6.25,... MHz

COMMUNICATION

Communication Link	LAN 10 Gb (TCP/IP) for each 64-channel board
Data Flow	1 GB/s per batch of 64ch

SYSTEM

Configurations	64/64AWG, 128/128AWG, 256/256AWG 256/1024AWG
Ultrasound Imaging Modes	Pulse-Echo (B-mode), Doppler, STA, etc...
Dimensions	454 x 233 x 395 mm 17.87 x 9.17 x 15.55 in.
Weights	< 10 Kg 22 lb for all configurations
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, Python, C#, LabVIEW, MATLAB, etc...
Operating Systems	Windows, Linux
AFM-API (High level API)	Including advanced beamforming methods...

I/O MANAGEMENT

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

Photos and specifications not contractual.