

OEM-PA USB 3.0

Customize Your Solution!

PULSER

Pulse Voltage	145 V
Pulse Type	Negative Square
Pulse Width	10~1000 ns
Pulse Width Resolution	4 ns
Pulse Focusing Delay	0~40 μ s
Pulse Focusing Delay Resolution	4 ns
Maximum PRF	20 kHz

RECEIVER

Receiver Sensitivity	12 bits
Receiver Gain Range	16~110 dB
Receiver Bandwidth	384 kHz to 20 MHz
Receiver DAC (digital)	80 dB, Up to 64 points with Linear Interpolation
Receiver Focusing Delay	0~40 μ s
Focusing Delay Resolution	5 ns
DDF	Up to 64 points

GATES

Number of Gates	4
Interface Echo Tracking (see below)	Yes
Synchronization (same cycle)	Yes
Synchronization (other cycle)	Yes
Mode	Max, Min, ABS, Zero before, Zero after

COMMUNICATION ¹

USB 3.0 Interface	160 MB/s
LAN (1000 BT, Gigabit)	10 MB/s

¹ The maximum data rate can vary according to the PC, OS settings, and the software environment.



Advanced Phased Array

- Small size- Hold in the palm of your hand
- Open platform for easy integration
- Unbeatable prices

SIGNAL PROCESSING

FIR Filter	Up to 64 taps
Different Filter per Cycle	Choose from 15 user defined filters
A-Scan Sampling	100 MHz
Decimation	50, 33, 25, 16.65, 14.28, 12.5 MHz...
Compression	Yes
A-Scan Video	Yes
Acquire All A-Scans	Yes
A-Scan Length	32 KB
Rectification	Yes

SYSTEM

Configurations	64/64, 128/128, 256/256
Max Number of Cycles	2048 (Optional 4096)
A-Scan Resolution	8, 12, 16 bits
A-Scan Mode	Lin, Log
64/64	110x70x80 mm ³ for bare electronics
Weight	Starting at 380 g bare
Temperature Sensors	Yes
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, C#, LabVIEW, MATLAB, and more
Full-Matrix Capture	Yes (<i>In Option</i>)
3D Focal Law Calc for Matrix PA	Yes (<i>In Option</i>)
Power Consumption ²	
64/64	36 W
128/128	72 W

² Measured at a 2 kHz PRF with a 5 MHz probe with all channels enabled

I/O MANAGEMENT

Encoders	X, Y
Encoder Modes	Quadrature, Quadrature4edges, Direction Count, Forward Backward
Synch In	Pulse Trig, Sequence Trig, Encoders
Synch Out	Pulse Trig, Sequence Trig, Output
TimeStamps	Yes (Position and Line Speed)
Pin Assignments	Programmable
Number I/O	6 Inputs, 6 Outputs

