

# OEM-PA

*Customize Your Solution!*

## PULSER

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

## RECEIVER

Receiver Sensitivity	550mV
Receiver Gain Range	16~110dB
Receiver Bandwidth	0.3 to 20MHz
Receiver DAC (digital)	80dB, Up to 64 points
Receiver Focusing Delay	0~40µs
Focusing Delay Resolution	5ns
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 <sup>1</sup>

LAN (100BT Connection)	5 MB/s (STANDARD)
LAN (1000BT, Gigabit Ethernet)	10 MB/s (UPGRADE)
USB3.0 Interface (128/128 only)	160 MB/S (UPGRADE)

<sup>1</sup> The maximum data rate can vary according to the PC, the OS setting, 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	100MHz
Decimation	50MHz, 33, 25, 16.65, 14.28, 12.5
Compression	Yes
A-Scan Video	Yes
Acquire All A-Scans	Yes
A-Scan Length	<32kB
Rectification	Yes

## SYSTEM

Configurations	16/16, 16/128, 32/32, 32/128, 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
16/16	110x80x40 mm <sup>3</sup> for bare electronics
64/64	110x70x80 mm <sup>3</sup> for bare electronics
Weight	Starting at 380g for bare electronics
Temperature Sensors	Yes
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, C#, LabVIEW, MATLAB, and more
Full-Matrix Capture	Yes (Optional Upgrade)
3D Focal Law Calc for Matrix PA	Yes (Optional Upgrade)

Power Consumption <sup>2</sup>	
16/16	16.5W
32/32	23W
64/64	36W
16/128	21W
32/128	28W

<sup>2</sup> Measured at a 2kHz PRF with a 5MHz 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