

OEM-PA2

Customize Your Solution!

PULSER

Pulse Voltage	145 V
Pulse Type	Negative Square
Pulse Width	10~1000 ns (lower frequency in option)
Pulse Width Resolution	4 ns
Pulse Focusing Delay	0~40 μs
Pulse Focusing Delay Resolution	4 ns
Maximum PRF	20 kHz
Arbitrary Waveform Generator	40 dB dynamic*

* Measured at 2 MHz

RECEIVER

Receiver Sensitivity	14 bits
Receiver Gain Range	16~110 dB
Receiver Bandwidth	30 kHz to 20 MHz
Receiver TCG (analog)	45 dB

COMMUNICATION ¹

PCI Express Interface	1~3 GB/s
LAN (1000 BT, Gigabit Ethernet)	Up to 100 MB/s (Option)

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

ACQUISITION

FIR Filter	Up to 64 taps
Different Filter per Cycle	Choose from 15 user defined filters
A-Scan Sampling	100 MHz
Decimation	50 MHz, 33, 25, 16.65, 14.28, 12.5
Acquire All A-Scans	Yes
A-Scan Length	>10 k points

Advanced FMC

- ✓ Very Small Form Factor (210 mm x 160 mm x 145 mm)
- ✓ Up to 100 m between the unit and the PC
- ✓ Super fast data throughput: From 1 to 3 GB/s

SYSTEM

Configurations	32, 64, 128, 256, 512, 1024...
Max Number of Cycles	2048
A-Scan Resolution	8, 14 bits
Temperature Sensors	Yes
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, C#, LabVIEW, MATLAB, Python and more
Full-Matrix Capture	Yes (Standard), all FMC modes available
3D Focal Law Calc for Matrix PA	Yes (Optional Upgrade)
High Level API	Including TFM Toolbox, Real time call & display

I/O MANAGEMENT

Encoders	4 Encoders
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	8 Inputs, 8 Outputs

