

OEM-PA MAX

Start Integrating Today!

PULSER

Pulser Voltage	Up to 100 V (200 V in option)
Pulse Type	Negative Square
Pulse Width	20 to 1000 ns
Pulse Width Resolution	4 ns
Pulse Focusing Delay	0 to 40 μ s
Maximum PRF	20 kHz (higher in option)
Arbitrary Waveform Generation (option)	<ul style="list-style-type: none"> • Any Waveform, up to 10 ms • \pm 100 V • Dynamic max > 40 dB • Output impedance < 5 Ohms

RECEIVER

Receiver Resolution	14 bits
Receiver Gain Range	110 dB
Receiver Bandwidth	50 kHz to 20 MHz
Receiver Focusing Delay	0 to 40 μ s at 100 MHz
Delay Resolution	5 ns
DDF	Up to 64 points
TCG	45 dB
TCG Slope	40 dB/ μ s

SIGNAL PROCESSING

FIR Filter	Up to 64 taps
Different Filter per Cycle	Choose from 15 User Defined Filters
Ascan Resolution	8, 12, 16 bits
Ascan Sampling	100 MHz
Decimation	50, 33, 25, 20, 16.65, 14.28, 12.5 MHz...
Ascan Compression	Yes
Acquire All Ascans	Yes
Ascan Length	Up to 65 k points in Beamformer Mode 8 k points in FMC Mode
Max Number of Cycles	4 096 Cycles
Gates	4 (Amplitude, TOF)
Gate Modes	Any (Peak, Flank, Zero before crossing, Zero after crossing)



- ✓ Ultra High Speed PAUT & FMC/TFM
1 GB/s per board
- ✓ Small Form Factor
Easy Mechanical Integration
- ✓ Open & Scalable Platform
Create Custom Solutions & Products
- ✓ AWG (Arbitrary Waveform Generator) Available

COMMUNICATION

Communication Link	LAN 10 Gb (TCP/IP)
Usefull UT Data Flow ¹	1 GB/s per unit

SYSTEM

Configurations	64/64, 64/128, 64/256
UT Modes	Pulse/Echo, Pitch & Catch, Through Transmission (TT)
Full-Matrix Capture	Yes (Standard), all FMC techniques available
Dimensions	From: 185x115x20 mm / 7.28x4.53x0.79 in. To: 230x115x20 mm / 9.06x4.53x0.79 in. < 250 g / 0.55 lb
Weights	
Mechanical Integration	Heat Plate with 4 screws holes (can be interfaced with a heat sink or cold plate)
Probe Connector	Micro Connector I-Pex, Hypertronics, ITT Canon Adaptor in option
Power Consumption ²	Typical 14 W
Temperature Monitoring	Yes
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, Python, C#, LabVIEW, MATLAB and more
Multi Platform Compatibility	With all AOS products

I/O MANAGEMENT

Encoders	X, Y, Z (differential, single ended)
Encoder Modes	Quadrature, Quadrature4edges, Direction Count, Forward, Backward
Synch In	Pulse Trig, Sequence Trig, Encoders
Synch Out	Pulse Trig, Sequence Trig
TimeStamps	Yes
Pin Assignments	Programmable
Number I/O	14 (8 inputs, 6 outputs)



Advanced OEM Solutions

¹The maximum data rate can vary according to the PC, the OS setting, and the Software environment.
²Measured at a 2 kHz PRF with a 5 MHz probe setting, all channels enabled.
Photos and specifications not contractual