OEM-PA Mini

Start Integrating Today!

- PAUT as well as FMC/TFM
  High Channel Count
- Small Form Factor,
  Easy Mechanical Integration
- Open Platform,
  Create Custom Solutions & Products

PULSER

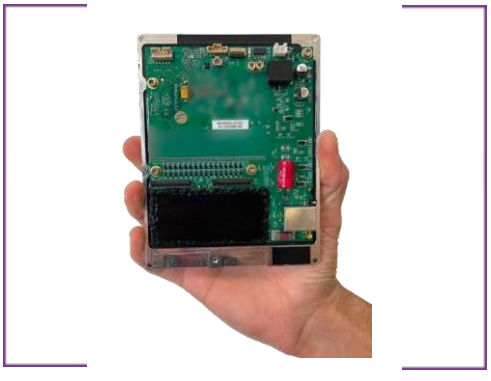
Pulser Voltage	100V (multiplexed) Adjustable 25V-200V (non-multiplexed)
Pulse Type	Negative Square
Pulse Width	20 to 1000 ns
Pulse Width Resolution	4 ns
Pulse Focusing Delay	0 to 40 µs
Maximum PRF	20 kHz (higher in option)

RECEIVER

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

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, 16.65, 14.28, 12.5 MHz...
Acquire All Ascans	Yes
Ascan Length	4 k points in FMC Mode 16 k points in Beamformer Mode
Max number of Cycles	4 096 Cycles
Gates	4 (Amplitude, TOF)
Gate Modes	Any (Peak, Flank, Zero before crossing, Zero after crossing)



COMMUNICATION

Communication Link	LAN 1Gb (TCP/IP)
Useful UT Data Flow[1]	100 MB/s

SYSTEM

Configurations	16/64, 16/128, 16/256, 32/32, 32/128, 32/256, 64/64, 64/128, 64/256...
UT Modes	Pulse/Echo, Pitch & Catch, Through Transmission (TT)
Dimensions	From: 150x115x16.8 mm / 5.9x4.53x0.63 in. To: 193x115x29 mm / 7.6x4.53x1.14 in.
Weight	< 250 g / 0.55 lb
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]	10 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 (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	8

Advanced OEM Solutions

[1]The maximum data rate can vary according to the PC, the OS setting, and the Software environment.
[2]Measured at a 2 kHz PRF with a 5 MHz probe setting, all channels enabled.
Based on Mini V3
Photos and specifications not contractual

01/2025