OEM-PA Max

Start Integrating Today!

- **Ultra High Speed PAUT & FMC/TFM (1 GB/s)**
- **AWG (Arbitrary Waveform Generator) Available**
- **Super Fast Data Througput up to 1 GB/s**
- **Small Form Factor, Easy Mechanical Integration**
- **Open & Scalable Platform, Create Custom Solutions & Products**

PULSER

Pulse Voltage	25 to 100-150 V[1]
Pulser Step	1 V
Pulse Type	Negative Square
Pulse Width	20 ns to 1000 ns
Pulse Width Resolution	4 ns
Pulse Focusing Delay	0 to 40 µs
Maximum PRF	20 kHz (higher in option)
Arbitrary Waveform Generation (in option)	Any Waveform, up to 10 ms available during acquisition ± 100 V Dynamic max > 40 dB Output impedance < 5 Ohms

RECEIVER

Receiver Dynamic	14 bits
Receiver Gain Range	110 dB
Receiver Bandwidth	50 kHz to 20 MHz
Receiver Focusing Delay	0 to 40 µs at 100 MHz
Receiver Focusing Delay	5 ns
DDF	Up to 64 Points
TCG	45 dB

SIGNAL PROCESSING

FIR Filter	Up to 64 taps
Different Filter per Cycle	Choose from 15 User Defined Filters
Ascan Resolution	8, 14, 16 bits
Ascan Sampling	100 MHz
Decimation	50, 33, 25, 20, 16.6, 14.28, 12.5 MHz...
Acquire All Ascans	Yes
Ascan Length (Beamformer)	Up to 65 k Points
Max Number of Cycles	4096 Cycles
FMC Option	Yes
Ascan Length	8 k points in FMC Mode

Photos and specifications not contractual.

COMMUNICATION

Communication link	LAN (TCP protocol, 10 Gigabit Ethernet)
Usefull UT data flow	1 GB/s[2] per unit

SYSTEM

Configurations	32/32, 32/128, 32/256, 64/64, 64/128, 64/256
Available Configurations	Pulse/Echo, Pitch&Catch, Through Transmission
Scalability	Stackable for 128/128, 256/256... 1024/1024
Multiplatform Compatibility	With all AOS products
Probe Connector	Micro Connector I-Pex, Hypertronics, ITT Canon Adaptor in option
Interface Integration	Heat Plate with 4 Screws Holes (Can be interfaced with a Heat Sink or Cold Plate)
Dimensions (LxWxH)	64/64: 185x115x20 mm 7.28x4.53x0.79 in. 64/256: 230x115x20 mm 9.06x4.53x0.79 in.
Weight	< 250 g / 0.55 lb
Temperature / Humidity Sensors	Yes
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, C#, LabView, MATLAB, Python and more
Power Consumption	14 W[3]

I/O MANAGEMENT

Encoders	X, Y, Z (differential, single ended)
Encoders 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

[1]Depending on the configuration
[2]The maximum data rate can vary according to the PC, the OS setting, and the Software environment.
[3]Measured at a 2 kHz PRF with a 5 MHz probe setting, all channels enabled.

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