

Explorer

⊘ Phased Array and FMC/TFM **High Data Throughput ⊘** Very Compact, Rugged, IP 67



PULSER

Pulser Voltage Pulse Type Pulse Width Pulse Width Resolution Pulse Focusing Delay Pulse Delay Resolution Maximum PRF

RECEIVER

Receiver Resolution Receiver Gain Range Receiver Bandwidth Receiver Focusing Delay **Delay Resolution** DDF

Up to 100 V (200 V in option) **Negative Square** 30 to 1000 ns (lower frequency in option) 4 ns 0 to 40 µs 4 ns 20 kHz

14 bits per channel 110 dB 0.3 to 20 MHz (50 kHz optional) 0 to 40 µs at 100 MHz 5 ns Up to 64 points

SIGNAL PROCESSING

FIR Filter Up to 64 taps Different Filter per Cycle Choose from 15 user defined filters Ascan Resolution 8, 16 bits Ascan Sampling 100 MHz Decimation 50, 33, 25, 16.65, 14.28, 12.5 MHz... Ascan Compression Yes Acquire All Ascans Yes 4 k points in FMC Mode Ascan Length 32 k points in Beamformer Mode Gates 4 (Amplitude, TOF) Gate Modes Any (Peak, Flank, Zero before crossing, Zero after crossing) Yes, no limitations IF Gate and Ascan Surface and backwall tracking

COMMUNICATION

Communication Link	LAN 1Gb (TCP/IP)
Usefull UT Data Flow ²	100 MB/s
SYSTEM	
STSTEM	
Configurations	16/16, 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)
Full-Matrix Capture	Yes, all FMC techniques available
Dimensions	64/128 : 200x130x43 mm 7.87x5.12x1.69 in. 64/256 : 240x130x75 mm 9.45x5.12x2.95 in.
Weights	64/128 : < 1.7 Kg / 3.75 lb 64/256 : < 2 Kg / 4.41 lb
Mechanical Integration	Bracket Plate in option
IP Rating	Designed for IP 67
Temperature Monitoring	Yes
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, Python, C#, LabVIEW, MATLAB, etc
Operating Systems	Windows, Linux
AFM-API (High level API)	Including TFM (Real time acquisition & display in option)

I/O MANAGEMENT

Multi Platform Compatibility

Encoders	X, Y (differential, single ended)
Encoder Modes	Quadrature, Quadrature 4 edges, Direction Count, Forward, Backward
Synch In	Pulse Trig, Sequence Trig, Encoders
Synch Out	Pulse Trig, Sequence Trig, Output
Pin Assignments	Programmable
Number I/O	8

With all AOS products

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¹ Function of the number of channels. ²The maximum data rate can vary according to the PC, the OS setting and the Software environment. Photos and specifications not contractual.