OEM-MC2

Start Integrating Today!

PULSER

Pulser Type 1 8 Pulsers from 25 to 400 V with 1 V

step (Negative Square)

Pulser Type 2 8 Pulsers Bipolar ± 100 V

(AWG in option: burst, gaussian, chirp)

Pulse Width 20 to 2000 ns

Pulse Width Resolution 4 ns Short-Circuit Protection Yes

Maximum PRF 20 kHz (higher in option)

RECEIVER

Receiver Resolution 27 bits (no analog gain required)

Receiver Dynamic 162 dE

Receiver Bandwidth 50 kHz to 20 MHz

Receiver Input \pm 10 V TCG 45 dB TCG Slope 40 dB/ μ s

SIGNAL PROCESSING

FIR Filter Up to 32 taps

Different Filter per Cycle Choose from 15 User Defined Filters
Ascan Resolution 8, 16, 27 bits, linear and log scale

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 32 k points in Beamformer Mode

Gates 4 (Amplitude, TOF)

Gate Modes Any (Peak, Flank, Zero before crossing,

Zero after crossing)

IF Gate and Ascan Yes, no limitations

No need for analog gain anymore, 162 dB, Dynamic Range

Bipolar, Burst & AWG and 400 V pulser

Up to ± 10 V receiver input

8 parallel channels per board

COMMUNICATION

Communication Link LAN 1Gb (TCP/IP)
Usefull UT Data Flow¹ 100 MB/s

SYSTEM

Configurations 8 parallel channels per unit
Channel Mode Full Parallel and/or Multiplexed
UT Modes Pulse/Echo, Pitch & Catch,
Through Transmission (TT)

Dimensions 150x105x15 mm / 5.9x4.13x0.59 in.

Weights < 250 g / 0.55 lb

Mechanical Integration Heat Plate with 4 screws holes (can be

interfaced with a heat sink or cold plate)

Power Consumption² 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





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Photos and specifications not contractual

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²Measured at a 2 kHz PRF with a 5 MHz probe setting, all channels enabled.