

OEM-MC2

Start Integrating Today!

- ✓ 162 dB, Dynamic Range, no need for analog gain anymore
- ✓ Bipolar, Burst & AWG Optional Add-Ons
- ✓ Up to ± 10 V receiver input
- ✓ Parallel channels

PULSER

Pulser Type 1	8 Pulser up to 400 V (Negative Square)
Pulser Type 2	8 Pulser Bipolar ± 100 V (burst, AWG in option)
Pulse Width	20 - 2000 ns
Pulse Width Resolution	4 ns
Short-Circuit Protection	Yes
Maximum PRF	20 kHz (Higher in option)

RECEIVER

Receiver #	8 parallel channels
Receiver Resolution	27 bits (no analog gain required)
Receiver Input	± 10 V
Receiver Dynamic Range	162 dB
Receiver Bandwidth	50 kHz to 20 MHz

SIGNAL PROCESSING

FIR Filter	Up to 64 taps
Different Filter per Cycle	Choose from 15 User Defined Filters
Ascan Resolution	8, 16, 24, 32 bits, linear and log scale
Ascan Sampling	100 MHz
Decimation	50, 33, 25, 20, 16.65, 14.28, 12.5 MHz...
Acquire All Ascans	Yes
Ascan Length (Beamformer)	32 k Points
Gates	4 (Amplitude, TOF)
Gates Modes	Any (peak, Flank, Zero before crossing, zero after crossing)
IF Gate and Ascan	Yes, no limitations

COMMUNICATION

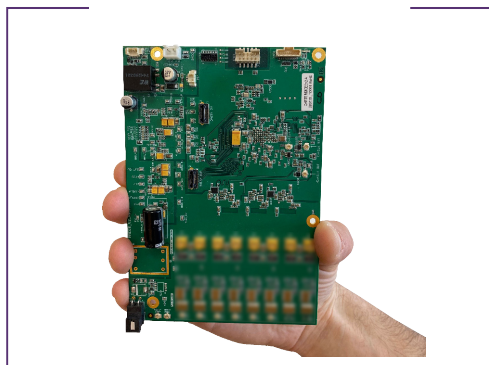
Communication link	LAN (TCP protocol, Gigabit Ethernet)
Usefull UT data flow	≥ 100 MB/s ¹

SYSTEM

Configurations	8 parallel channels per unit
Available Configurations	Pulse/Echo, Pitch & Catch, Through Transmission (TT)
Multiplatform Compatibility	With all AOS products
Channel Mode	Full Parallel and/or Multiplexed
Mechanical Integration	Heat plate with 4 screw holes (can be interfaced with a heat sink or cold plate)
Dimensions (LxWxH)	150x105x15 mm / 5.9x4.13x0.59 in.
Weight	< 250 g / 0.55 lb
Temperature / Humidity	Yes
Sensors	
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, C#, LabVIEW, MATLAB, Python and more
Power consumption	10 W ²

I/O MANAGEMENT

Encoders	X, Y (differentiate, 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	8



Photos and specifications not contractual



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.