

OEM-MC μ (Micro)

Start Integrating Today!

- ✔ Small Form Factor, Easy Mechanical Integration
- ✔ High performance
- ✔ Open Platform, Create Custom Solutions & Products

PULSER

Pulser #	8 parallel channels
Pulse Voltage	25 to 400 V with 1 V step
Pulse Width	20 - 1000 ns
Pulse Width Resolution	4 ns
Short-Circuit Protection	Yes
Maximum PRF	20 kHz (higher in option)

RECEIVER

Receiver #	8 parallel channels
Receiver Resolution	14 bits
Receiver Gain Range	90 dB
Receiver Bandwidth	0.3 to 20 MHz (from 50 kHz optional)
Receiver TCG	45 dB

SIGNAL PROCESSING

FIR Filter	Up to 32 taps
Different Filter per Cycle	Choose from 15 User Defined Filters
Ascan Resolution	8, 14 bits
Ascan Sampling	100 MHz
Decimation	50, 33, 25, 20, 16.6, 14.28, 12.5... MHz
Ascan Compression	Yes
Acquire all Ascans	Yes
Ascan Length	Up to 32 k points/channel
HW Gates	4 per channel
Gates modes	Any (peak, flank, Zero before crossing, Zero after crossing)
IF Gate and Ascan	Surface and backwall tracking

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)
Channel Mode	Full Parallel and/or Multiplexed
Multiplatform Compatibility	With all AOS products
Mechanical Integration	Heat Plate with 4 screws
Dimensions (LxWxH)	55x48x27 mm / 2.17x1.89x1.06 in.
Weight	210 g / 0.46 lb
Temperature / Humidity Sensors	Yes (on board)
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.