

OEM-MC μ (Micro)

Start Integrating Today!

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

PULSER

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

RECEIVER

Receiver Resolution	14 bits
Receiver Gain Range	110 dB
Receiver Bandwidth	50 kHz to 20 MHz
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 bits
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	Up to 32 k points/channel
Gates	4 per channel
Gate Modes	Any (Peak, Flank, Zero before crossing, Zero after crossing)
IF Gate and Ascan	Yes, no limitations

COMMUNICATION

Communication Link	LAN 1Gb (TCP/IP)
Useful UT Data Flow ¹	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	127x105x27 mm / 5x4.13x1.06 in.
Weight	250 g / 0.55 lb
Mechanical Integration	Heat Plate with 4 screws
Power Consumption ²	10 W
Temperature Monitoring	Yes (on board)
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
Pin Assignments	Programmable
Number I/O	8



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.
 Photos and specifications not contractual