High Performance Multi-Channel UT Multi-Plexed

OEM-MC Mini

Start Integrating Today!

- High Performances Multiplexed
  High Channel Count
- Small Form Factor
  Easy Mechanical Integration
- Open Platform
  Create Custom Solutions & Products

PULSER

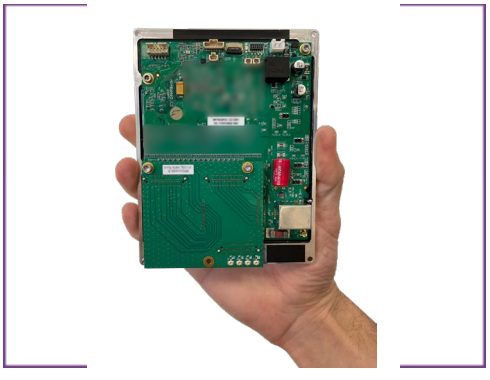
Pulser Voltage	100 V (up to 200 V in option)
Pulse Type	Negative Square
Pulse Width	20 to 1000 ns
Pulse Width Resolution	4 ns
Maximum PRF	20 kHz (higher in option)

RECEIVER

Receiver Resolution	14 bits
Receiver Gain Range	110 dB
Receiver Bandwidth	50 kHz to 20 MHz
TCG	45 dB
TCG Slope	40 dB/µs
TCG Synchronized	Yes

SIGNAL PROCESSING

FIR Filter	Up to 64 taps
Different Filter per Cycle	Choose from 15 user defined filters
Ascan Resolution	8, 12, 16 bits
Ascan Sampling	100 MHz
Decimation	50, 33, 25, 16.65, 14.28, 12.5 MHz...
Acquire All Ascans	Yes
Ascan Length	16 k points
Max Number of Cycles	4 096 Cycles
Gates	4 (Amplitude, TOF)
Gate Modes	Any (Peak, Flank, Zero before crossing, Zero after crossing)



COMMUNICATION

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

SYSTEM

Configurationsx	8, 16, 32, 64
Channel Mode	Multiplexed
UT Modes	Pulse/Echo, Pitch & Catch, Through Transmission (TT)
Dimensions	115x150x16.8 mm / 4.53x5.9x0.66 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 Consumption[2]	10 W
Temperature Monitoring	Yes
Connector Board	Available (Application / Customer Defined)
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

Advanced OEM Solutions

[1]The maximum data rate can vary according to the PC, the OS setting, and the Software environment.
[2]Measured at a 2 kHz PRF with a 5 MHz probe setting, all channels enabled.

Photos and specifications not contractual

03/2024