



UNIQUE IN NDT



Pilot *Multi*

- ✓ Up to 64 Multiplexed Channels
- ✓ Compact and Easily Integrated
- ✓ Open Platform, Create Custom Solutions and Products

PULSER

| | |
|--------------------------|-------------------------------|
| Pulser Voltage | Up to 100 V (200 V in option) |
| Pulse Width | 30 to 1000 ns |
| Pulse Width Resolution | 4 ns |
| Short-Circuit Protection | Yes |
| Maximum PRF | 20 kHz (higher optional) |

RECEIVER

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|---------------------|---------------------------------|
| Receiver # | 16 sequential channels |
| Receiver Resolution | 14 bits |
| Receiver Gain Range | 110 dB |
| Receiver Bandwidth | 0.3 to 20 MHz (50 kHz optional) |

SIGNAL PROCESSING

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|----------------------------|--|
| FIR Filter | Up to 64 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, 16.65, 14.28, 12.5...MHz |
| Ascan Compression | Yes |
| Acquire All Ascans | Yes |
| Ascan Length | Up to 32k points |
| Gates | 4 (Amplitude, TOF) |
| Gate modes | Any (Peak, Flank, Zero before crossing, Zero after crossing) |
| IF Gate and Ascan | Yes, no limitations |



with Bracket Plate

COMMUNICATION

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

SYSTEM

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|--------------------------------|--|
| Configurations | 16 channels per unit (32, 64 in option) |
| Channel Mode | Multiplexed |
| UT Modes | Pulse/Echo, Pitch & Catch, Through Transmission (TT) |
| Dimensions | 240x140x45 mm 9.45x5.51x1.77 in. |
| Weights | < 1.5 Kg / 3.3 lb |
| Mechanical Integration | Bracket Plate in option |
| IP Rating | Designed for IP67 |
| Power Consumption ² | 10 W |
| Temperature Monitoring | Yes |
| Open Source SDK | Yes (Fully Documented API) |
| Software Languages | C++, Python, C#, LabVIEW, MATLAB, etc... |
| Operating Systems | Windows, Linux |
| Multiplatform Compatibility | With all AOS products |

I/O MANAGEMENT

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|-----------------|--|
| Encoders | X, Y (differential, single ended) |
| Encoder Modes | Quadrature, Quadrature 4 edges, Direction Count, Forward, Backward |
| Synch In | Pulse Trig, Sequence Trig, Encoders |
| Synch Out | Pulse Trig, Sequence Trig, Output |
| Pin Assignments | Programmable |
| Number I/O | 8 |