



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

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

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, 16.67, 14.28, 12.50, ... MHz
Ascan Compression	Yes
Acquire All Ascans	Yes
Ascan Length	Up to 32 k points
Gates	4 (Amplitude, TOF)
Gate Modes	Any (Peak, Flank, Zero before crossing, Zero after crossing)
IF Gate and Ascan	Yes, no limitations

COMMUNICATION

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

SYSTEM

Configurations	16 channels per unit (32, 64 in option)
Channel Mode	Multiplexed
UT Modes	Pulse/Echo, Pitch & Catch, Through Transmission (TT)
Dimensions	240 x 140 x 45 mm 9.45 x 5.51 x 1.77 in.
Weights	< 1.5 Kg / 3.3 lb
Mechanical Integration	Bracket Plate in option
IP Rating	Designed for IP 67
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

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

⁽¹⁾ The maximum data rate can vary according to the PC, the OS setting and the Software environment. Photos and specifications not contractual.

⁽²⁾ Measured at a 2 kHz PRF with a 5 MHz probe setting, all channels enabled.