



Pilot

- ✓ No more analog gain
162 dB acquired at once
- ✓ Full Parallel 8 channels
- ✓ Designed for IP 67 Bipolar, Burst & AWG Optional

PULSER

Pulsers Type 1	8 Pulsers up to 400 V (Negative Square)
Pulsers Type 2	8 Pulsers Bipolar ± 100 V (burst, gaussian, chirp, AWG)
Pulse Width	20~2000 ns
Pulse Width Resolution	4 ns
Short-Circuit Protection	Yes
Maximum PRF	20 kHz (higher optional)

RECEIVER

Receiver #	8 parallel channels
Receiver Resolution	27 bits (no analog gain required)
Receiver Input	± 10 V
Receiver Dynamic Range	162 dB at once
Receiver Bandwidth	0.3 MHz ~ 20 MHz (50 kHz optional)

SIGNAL PROCESSING

FIR Filter	Up to 32 taps
Different Filter per Cycle	Choose from 15 user defined filters
Ascan Resolution	8, 16, 32 bits, linear and log scale
Ascan Sampling	100 MHz
Decimation	50, 33, 25, 20, 16.65, 14.28, 12.5...MHz
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 (TCP protocol, Gigabit Ethernet)
Usefull UT Data Flow ¹	≥ 100 MB/s

SYSTEM

Configurations	8 parallel channels per unit
Available Configurations	Pulse/Echo, Pitch & Catch, Through Transmission (TT)
Channel Mode	Full Parallel or Multiplexed
Mechanical Integration	Bracket plate optional
Dimensions (LxWxH)	240x140x45 mm 9.45x5.51x1.77 in.
Weight	< 1.5 Kg / 3.3 lb
Temperature / Humidity Sensors	Yes
Open Source SDK	Yes (Fully Documented API)
Software Languages	C++, Python, C#, LabVIEW, MATLAB, etc...
Power Consumption ²	10 W
IP Rating	Designed for IP 67

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, Output
Pin Assignments	Programmable
Number I/O	8