

UTxx-V72

Ultrasonic

UTxx is a versatile ultrasound electronic platform for industrial Nondestructive Testing (NDT) applications, testing machines, and on-line systems. Configurations are available for single channel, up to 12-channels in a rack or as multiple rack configuration.



Technical Specifications

Configuration

- Single Channel module
- Up to 12 channels in a rack (parallel firing)
- Multiple rack configuration possible

Pulser

- 170V negative square pulse in a 50Ω load
- Adjustable width 15ns to 1.5μs in 1ns steps
- Max. PRF 20 KHz
- Adjustable delay 0 to 16ms in 1ns step
- 15Ω - 650Ω output impedance adjustable in 5Ω steps

Receiver

- 4.5Vpp or 45Vpp selectable input voltage (via software)
- 15Ω - 650Ω input impedance adjustable in 5Ω steps
- 0.3 - 25 MHz analog bandwidth
- 120 dB dynamic range
- 120 dB gain control
- 120 dB TCG with 120dB/10ns slope

Digitizer

- Sampling frequency of 100 MHz
- 24-bit amplitude/channel
- 5.2ms long A-Scan

Signal Processing

- Programmable digital filter (0.1MHz to 25MHz)
- Linear or logarithmic display
- A-Scan compression
- ALOK (Multi-peak/TOF detection)
- Adjustable reject level
- A-Scan envelope

Evaluation

- 4 gates including Interface trigger gate
- 2 alarm levels per gate
- 10ns TOF resolution
- Backwall tracking gate

Interfaces

- External PRF input, external acquisition trigger input
- 12 alarm outputs
- USB2 interface between hardware and PC

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