

# UTxx-V72.4x

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

Min. 150 V negative square wave pulse in a 50  $\Omega$  load

Adjustable width 15 ns to 1.5  $\mu$ s in 1ns steps

Max. PRF 20 KHz

Adjustable delay 0 to 16ms in 1ns step

15  $\Omega$  - 650  $\Omega$  output impedance adjustable in 5  $\Omega$  steps

### Receiver

4.5  $\mu$ V pp - 45 V pp selectable input voltage (via software)

15  $\Omega$  - 650  $\Omega$  input impedance adjustable in 5  $\Omega$  steps

0.8 - 25 MHz bandwidth

120 dB dynamic range

120 dB gain control in 0.1 dB steps

120 dB TCG with 120 dB/40 ns slope

### Digitizer

Sampling frequency of 100 MHz

24-bit amplitude/channel

5.2 ms long A-Scan

### Signal Processing

Programmable digital filter (0.1 MHz to 25 MHz)

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

10 ns TOF resolution

Backwall tracking gate

### Interfaces

External PRF input, external acquisition trigger input

12 alarm outputs

USB2(72.41) or LAN(72.45) interface between hardware and PC



GE imagination at work