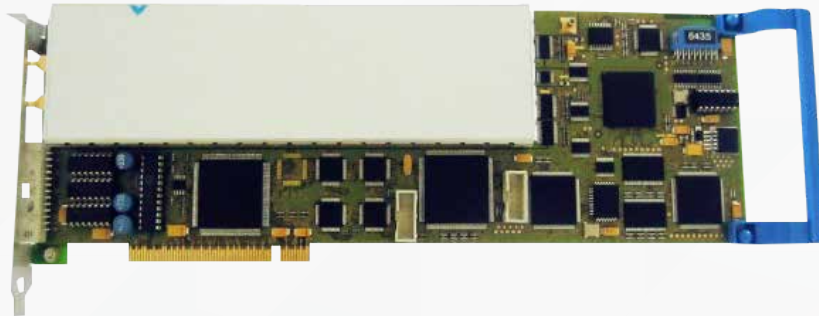


## USPC : UT SINGLE CHANNEL

Socomate International

Worldwide excellence in UT electronics

The USPC7100 card in OEM basis is a high standard single channel pulser/receiver UT electronic gathering the best conditions, both in terms of performances and reliability. From several references, discover outstanding effectiveness and capacity in flaw detection and dimensional measurement.



USPC7100 is a single channel plug & play PCI card, coming with a CD installation software.

Easy to integrate and set up, take advantage of performances complying with European, Russian, Chinese standards as well as GE and Rolls Royce approvals.



### STANDARD USER INTERFACE

USPC7100 is used in many applications through out the NDT field. It combines excellent results in surface resolution, temporal linearity and amplitudes.

The ultrasonic signal is sampled through a 100 or 200 MHz digitizer allowing thus a higher measurement accuracy.

Benefit an A & C-Scan real time data acquisition via the DLL.

### MAIN FEATURES OF USPC7100

#### Square wave pulser

Square wave Pulser <5ns fall time  
20 kHz PRF  
Excellent Near Surface Resolution

#### Receiver/Amplifier

0.35 to 30 MHz Bandwidth  
105 dB Dynamic Range  
Amplifier linearity +/- 0.5 dB  
Low noise <20% FSH (105dB/WB)

#### DAC

DAC Slope +/-40dB/ $\mu$ S

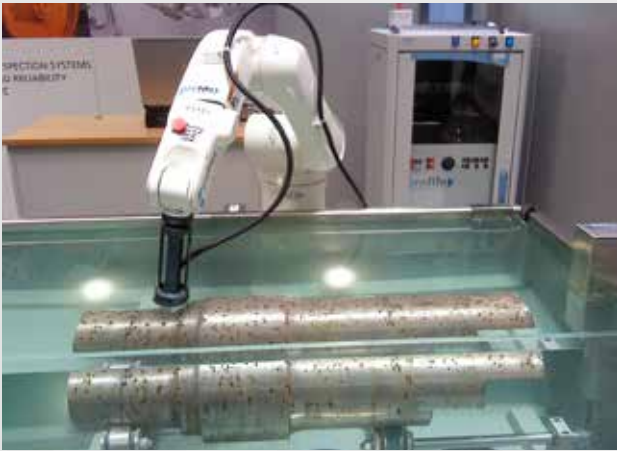
#### Evaluation

TOF/WT Resolution better than 1 $\mu$ m  
200 MHz A/D digitizer, 10 Bits

#### A-scan Display

Display Vertical linearity +/-1%

## References from our Partners, using the UT electronic USPC



Single boggies axle testing with robot



Aluminium plate for aircraft industry



Composite testing with squirters robots



Spot weld testing in-line



On-track rail inspection at 100km/h non-stop