

Produit **37PCUS00**

Dossier

Date **04/07/12**Page **1 / 3**

I/ Presentation

- Mini ITX compact box:



- Characteristics
 - Processor Intel© Atom Duo Core 1.8 GHz
 - 3Go RAM
 - HD SSD (Solid State Drive) 100Go
 - Keyboard and mouse PS/2 and VGA screen (For local piloting)
 - Many standard interfaces (USB – RS232 – Parallel – LAN Gb – Audio)
- Software
 - Microsoft© Windows© 7 Pro 32bits
 - Fully preloaded software of standard configuration and ultrasonic visualization (requires a USPC card in option to runs it)
 - SDK (Software Development Kit) for USPC card including Driver Dll help and examples
 - Restoration on USB key
- Options
 - Pack wide screen 18" , keyboard, mouse (61INFO004)
 - DVD writer/player (61INFO007)
 - USPC card 25USPC7100LA (AScan and Cscan acquisition according to PRF)
 - Mono-element ultrasonic probes (according to part to control)

SREM Technologies reserves the right of any modifications.

Produit **37PCUS00**

Dossier

Date **04/07/12**

Page **2 / 3**

II/ Standard software of configuration and visualisation

3/ Affichage AScan
Monitoring des portes
et Courbe DAC

1 / Title :
Setup version and
name

2/ Menu :
Configuration files management
Multi-AScan display

4/ Displays values
and measures

6/ Function Selection

7 / Settings of the différents parameters for each function

SREM Technologies reserves the right of any modifications.



PCUS V2 TECHNICAL SHEET



Produit **37PCUS00** Dossier Date **04/07/12** Page **3 / 3**

III/ Specifications of USPC CARD, TYPE 7100

SQUARE EMITTER

Negative impulsion

Tension : 125/250 Volts (50 Ohms)

Time of descent : 5 ns

Impulsion width : 25 ns à 1 000 ns

Max PRF : 20 kHz (divided by the number of active paths if it is a multiplex version)

You can have an external trigger (5 inputs) with divider

RECEPTEP/AMPLIFIER

Impedance : 50 Ohms

Bandwidth : 0.35 à 30 MHz analogic ;
0.35 à 24 MHz digital

Gain : 70 dB, adjustable (pace : 0.1dB)

Input attenuator : 0/15dB

Attenuator : 0/20dB

Dynamic range : 105dB

Mode : Pulse-Echo / Transmission

Bandwidth (MHz): 0.35-0.85/0.75-1.8/1.3-3.2/3-7.5/5-15/10-19.5/LB

Reject sur Ascan : 0 to 50%

Offset sur Ascan: 0 to 10%

Output RF : 2.0Vpp (50 Ohms) 1.5Vpp FSH

Multitest for one-way card (up to 8 sequential tests)

DAC

Triggers : Impulsion of emission / Interface Echo / Artificial

Dynamic range : 70 dB

Slope : +/- 40 dB/ μ s

Segments : 30

Auto-settings for the slope

DOORS

Porte IF (yellow)

Porte 1 (red) & Porte 2 (blue)

All doors are entirely independant

Departure : 80ns to 655 μ s – pace 20ns

Width : 20ns to 655 μ s – pace 20ns

Level: 10% to 90% -pace 1%

Double seuil : Porte 1 & 2

Triggers : inactive/ Impulsion of emission /Interface/Artificial on door 1 & 2/ Door to Door on Door 2

Follow the background echo on door 1

ON-LINE DEFAULTS

Default alarm : Positive/Negative

Sound suppressor : 0 to 30 violations

Default mode : Max. or amplitude of 1st peak in doors 1 & 2

Amplitude only for doors 1 & 2

TOF/ On-line thickness measurer

Alarms : Min. & Max.

Sound suppressor: 0 to 30 violations

Mode : 1st echo in door IF and max echo or 1st echo in doors 1 & 2

Origins : Peak, Flank, Zero crossing

Door mode: HW +, HW -, FW & RF

WT Data process (DSP) : Superior and inferior limits, Deviation Max., Filtering, Average, etc...

A-SCAN DISPLAYS

Mode : HW+, HW-, FW & RF

Doors : Yellow (IF), Red (P1) & Blue (P2)

Curve DAC : 0% to 70% FSH (0-70dB)

Delay : 0 to 655 μ s – pace 20ns

Range : 1 μ s to 1.3ms – pace 20ns

Trigger : Emission echo / Departure Door 1 / Departure Door 2/

Trigger door 1/ Trigger door 2

Peak display : Snapshot or Peak Max.

Celerity : Interface and Material

A-Scan length : 100 to 512 Points

Aquisition mode : scrolling or external

Trigonometry : Distance & depth

Units : μ s/mm/inch/ N° of sets on composite

Average on 1./2/4/8/16 A-scans

EVALUATION ON CARD

Converter : 200MS/s, 10-bits

Amplitude resolution: 1% FSH

Resolution TOF : 10ns or 5ns

Resolution WT : < 1 μ m zero crossing

AQUISITION

PCI card with high memory capacity allowing a real time transfer of AScan and CScan datas

Aaquisition conditions: Internal – External – On alarm

ULTRASONIC NORM AND HOMOLOGATION

Europe : EN 12668-1

Russia : GOST

China : JJG 746 – 2004 UT

General Electric : DFO for P29TF82 Class A,B,C and P3TF31

Rolls Royce : RPS 705 - QCTP 6265

SREM Technologies reserves the right of any modifications.

SREM Technologies – SA au capital de 270 000 € - RCS Le Mans B 394 727226 – SIRET 00026 – TVA FR64394727226
ZI Ouest – rue des frères Chappe – 72200 LA FLECHE – T. 02.43.48.15.10 – Fax 02.43.45.25.26