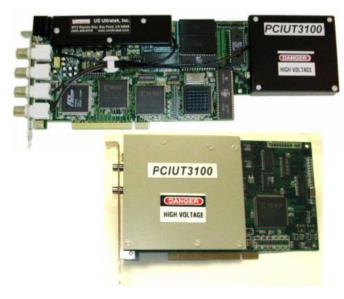


PCIUT3100 All-in-One

ULTRASONIC PULSER/RECEIVER AND 100MHZ A/D BOARD FOR PCI BUS



FEATURES:

- One-Board Design: pulser/receiver and A/D converter on a single PCI board
- 32-bit PCI bus for the ultra-fast data transfer rate
- On-board microprocessor for various custom applications
- On-board encoder counters featuring optional position based data acquisition
- Time stamps, XY positions, and I/O status for each A-scan
- 256-channel automatic timing and switching capability when coupled with DT16B
- Distance amplitude correction (DAC) for all 256 channels (optional)
- Up to 100MSPS high-speed A/D conversions
- FIFO memory for storing multiple A-scans—up to 256 kilo samples
- Pulser switch-off during data acquisition for low noise operation
- Wide-range dynamic gain
- Adjustable DC offset
- Oscilloscope software for Windows XP/Win 7/10 included
- Windows XP/Win 7, and 10 software development kits for C/C++, Visual BASIC, and LabVIEW

DESCRIPTION:

The PCIUT3100 ultrasonic testing board is a combination pulser/receiver and high-speed analog to digital converter on a single PCI board. The board generates an electrical pulse which is transmitted to an ultrasonic transducer. The transducer converts the electrical excitation pulse to an ultrasonic pulse which then propagates into the test material or couplant. The transducer also receives the echoes that are reflected back from the interface and converts the ultrasonic pulse back into an electrical signal which is then processed by the on-board receiver and analog to digital converter.

This process is entirely adjustable by the end user—configurable parameters include: pulse voltage, pulse width, damping, pulse/echo or through transmission mode, receiver gain, DC offset, low-pass filter, high-pass filter, rectification, sampling rate, trigger source—internal or external, and trigger delay.

Optional add-ons include digital inputs and outputs, a sync output, memory updates, distance amplitude correction (DAC), up to two additional 14-bit analog to digital converters, up to 4 encoder counters for on position data acquisition, and software development kits.

When used in conjunction with our DT16G 16-channel pulser/receiver switching boards, the PCIUT3100 becomes a multi-channel ultrasonic inspection and analysis system capable of up to 256 channels. Multiple PCIUT3100 boards can also be installed in one computer to develop a multi-channel ultrasonic system capable of firing multiple transducers and acquiring data at the same time.

Part Numbers:

PCIUT3100: Single channel version **PCIUT3100M**: Multi-channel version

PCIUT380: 80 MHz sampling rate short board version

UTM: 4 channel / single board version

ZYKANG 深圳众裕康科技有限公司 Shenzhen Zhong Yu Kang Technology Co. Lid

联系人: 曾祥满 手机: 13632925349 QQ: 812401203 电话: 0755-28896837

深圳众裕康科技有限公司 _{地址:深圳市龙岗区沙平北路111号6008} 网址:www.zykang.cn 邮箱:zykang2021@163.com



PCIUT3100 All-in-One

ULTRASONIC PULSER/RECEIVER AND 100MHZ A/D BOARD FOR PCI BUS

SPECIFICATIONS:

Pulse Voltage Pulse Width Damping Internal Trigger **Receiver Gain DC Offset Low Pass Filter High Pass Filter** Waveform Sampling Rate **Transducer Mode** Resolution Memory Waveform Length **Trigger Source** Connectors Post Trigger delay **Dimensions**

Add-on Options

-40V to -300V, 256 steps, higher voltages are available upon request 50 ns to 484ns, 256 steps Optional 15 ns is available upon request. 620Ω , 340Ω , 200Ω , 160Ω , 60Ω , 55Ω , 50Ω , or 47Ω

10 Hz to 5000 Hz in 10 Hz increments when internal trigger is selected.

0 dB to 80 dB in 0.1dB increments. -2.5V to +2.5V in 5mV increments

All, 48MHz, 28MHz, 18MHz, 8.8MHz, 7.5MHz, 6.7MHz, or 5.9MHz

4.8MHz, 1.8MHz, 0.8MHz, or 0.6MHz

Full rectification, + half rectification, - half rectification, or RF

100MHz, 50MHz, 25MHz, 12.5MHz, 6.25MHz, 3.125MHz, and 1.5725MHz

Single (Pulse/Echo) or dual (through transmission)

8 bits (0 to 255)

16 kilo samples and optional 256 kilo samples

16 to 16382 in 4 sample steps external, internal or software

2 BNC (or optional LEMO 00) connectors: Pulse out, and receiver in

2 to 32764 samples in 2 sample steps

12.5"x4.25" not including BNC and PCI edge connectors

- BNC (or LEMO 00) trigger SYNC output and/or EXT TRIG connectors

- 160 MHz sampling rate

- Distance amplitude correction

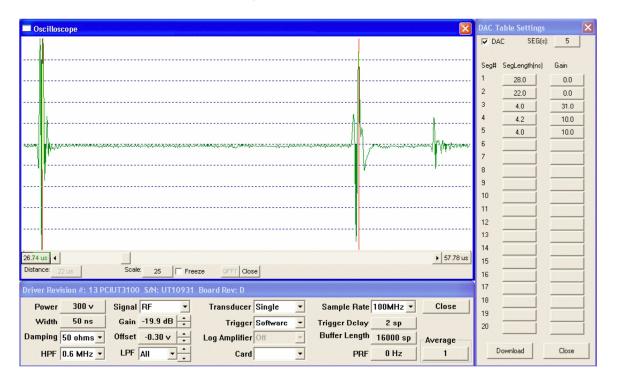
- Up to 4 encoder counters and connectors and 16 digital I/O

- Two additional 14-bit A/D converters

- 256K sample memory upgrade

- Windows software development kits

- Multi-channel control option



联系人: 曾祥满 手机: 13632925349 QQ: 812401203 电话: 0755-28896837

地址:深圳市龙岗区沙平北路111号6008 网址: www.zykang.cn 邮箱: zykang2021@163.com