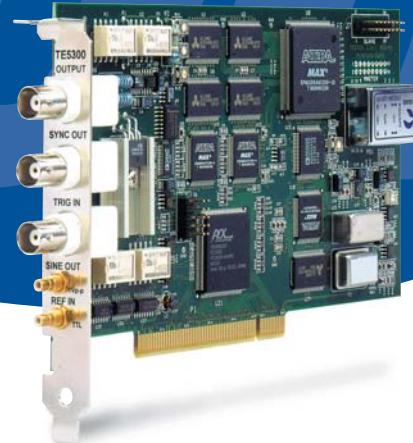


# 125MS/s PCI Bus Arbitrary Waveform Generator

## MODEL TE5300



- Single-channel 125 MS/s waveform generator
- Multiple instrument synchronization
- 14 Bit vertical resolution
- 2 Meg waveform memory
- 1 ppm clock accuracy and stability
- Extensive modulation capabilities AM, FM, Arbitrary FM, FSK, Ramped FSK and Sweep
- 10 digits sample clock frequency setting, limited by 1µS/s

- Waveform sequencing with up to 4096 segments and sequences
- Occupies a single PCI slot only
- Ultra fast waveform downloads using DMA
- Extremely low phase noise carrier
- ArbConnection software for easy waveform creation & control

Model 5300 is a Single-Channel PCI-based Arbitrary Waveform Generator. It is a high performance waveform generator that combines many powerful functions in one small package. Supplied free with the instrument is ArbConnection software, which is used for controlling the 5300 and for generating, editing and downloading waveforms from a remote computer.

### PCIbus: A Cost Effective Format

The 5300 is a sensible alternative to a GPIB-based waveform generator when developing a PCI-based test system. The 5300 provides a synergistic combination of a function generator, arbitrary waveform synthesizer, programmable sequencer, pulse generator, and modulation generator in one instrument. The 5300 delivers all this at a lower cost than comparable bench-type, or VXI-based instruments. This versatility ensures that the Model 5300 will adapt to future testing needs as well as current ones.

### 125 MS/s Sample Rate

New technology requirements are driving communications systems to use increasingly

narrow channel width. A high sample rate of 125 MS/s makes the 5300 an ideal modulation source for troubleshooting new encoding schemes. The 5300 also provides high-speed waveforms to simulate signal distortion, power line cycle dropouts, video signals, component failures and power supply transients.

### 14 Bit Resolution

The 14-bit resolution provides 16,384 output levels. This means that even audio waveforms can be generated with excellent fidelity. It also allows video - and other complex waveforms - to be generated with small details superimposed on large signals, in order to test the response of receiving systems.

### 2Meg Waveform Memory

The 5300 provides 2Meg of waveform memory as standard, far more than competitive models. This waveform memory is accessible via a high-speed interface. Also, waveform memory is segmentable, allowing the storage of up to 4096 different waveforms of variable size. This allows test software to switch between many different waveforms rapidly and without having to download multiple times, enhancing test

throughput in a way that cannot be duplicated by other competing products.

### Sequences of up to 4096 Waveforms

Powerful sequencing capability allows linkage of up to 4096 waveform segments and/or bursts (repeated segments) into strings. A segment can be repeated up to 128K times in burst mode. Sequenced functions run continuously or are initiated by a trigger. It is also possible to mix continuous and triggered segments within one sequence. These sequencing features permit the creation of complex waveform or pulse patterns using minimal amounts of memory. Sequences are created by writing a sequence table.

Sequence table download is extremely fast because ArbConnection writes to registers and does not require the overhead of an embedded controller.



# 125MS/s PCI Bus Arbitrary Waveform Generator

## Model TE5300



### Flexible Triggering Capability

Combining PCIbus trigger lines with the 5300 sync capability transforms the instrument into an Arbitrary Trigger Generator. In addition to continuous output, the instrument can also wait for a trigger to initiate a single waveform, a burst of waveforms or a sequence of waveforms. Triggers can also be used to advance a sequence of waveforms one segment at a time. The 5300 accepts the trigger s for multiple sources: eight backplane trigger lines plus STAR trigger, front panel trigger input, and manual commands such as \*TRG

### Sample Clock Agility

The Model 5300 has outstanding low phase noise characteristics and carrier stability. Such characteristics are very much needed for telecommunication and channel separation applications. On the other hand, the output of the 5300 can be made extremely agile for applications needing sweep, FSK and FM. The sample clock of the instrument is derived from

a DDS (Direct Digital Synthesis) circuit so controlling instantaneous frequency is a matter of changing its input bits. You, as a user, should not really care how it is done but the end result is magnificent: functions like wide-band FM, wander, linear and logarithmic sweep are easily created and executed by the generator. A unique and extremely useful feature of ArbConnection is the FM Composer. The FM composer screen looks very much like the Wave Composer screen except the "Y" axis is given in units of frequency, so waveforms you create using the FM composer generate frequency change over time. You can create any arbitrary waveform shape or even use the equation editor to generate exotic shapes which eventually you can use to frequency modulate your main output.

### Arbitrary Waveforms

The last but not least is flexibility of the 5300 as an Arbitrary Waveform Generator. Combined with the power of ArbConnection, there is no

limit to what you can create and generate. Waveform coordinates can be imported from a variety of sources such as MathLab, ASCII files etc. Anything you can show on one of the composer screens is downloaded in a split of a second and generated by the main output. Place 2 or more Model 5300's in a chassis and harness the power of multi-instrument synchronization to create multiple, phase-controlled output channels. Then vary module-to-module phase offsets to create multi-phase signal source. Really exciting!

### ArbConnection

Unlimited Source of Arbitrary Waveforms. With the ArbConnection software you can control instruments functions, modes and features. You can also create virtually an unlimited variety of test waveforms. Freehand sketch allows you to draw your own custom waveform for quick analysis of analog signals. You can use the built-in equation editor to create your own exotic functions. Add or subtract components of a

# 125MS/s PCI Bus Arbitrary Waveform Generator

## Model TE5300



### Service and Support

Beyond providing precision Test & Measurement instruments, Tabor Electronics provides unparalleled service and support, and is continuously finding new ways to bring added value to its customers.

Our after-sales services are comprehensive. They include all types of repair and calibration, and a single point of contact that you can turn to whenever you need assistance. As part of our extensive support, we offer individualized, personal attention Help Desk, both online and offline, via e-mail, phone or fax.

Tabor Electronics maintains a complete repair and calibration lab as well as a standards laboratory in Israel and USA. Service is also available at regional authorized repair/calibration facilities.

Contact Tabor Electronics for the address of service facilities nearest you.

### Applications

For expert technical assistance with your specific needs and objectives, contact your local sales representative or our in-house applications engineers.

### Manuals, Drivers, and Software Support

Every instrument comes equipped with a dedicated manual, developer libraries, IVI drivers, and software. However, if your specific manual is lost or outdated, Tabor Electronics makes it possible to log-on to its Download Center and get the latest data "in a click".

### Product Demonstrations

If your application requires that you evaluate an instrument before you purchase it, a hands-on demonstration can be arranged by contacting your local Tabor Electronics representative or the Sales Department at our Corporate Headquarters.

### Three-year Warranty

Every Tabor Electronics instrument comes with a three-year warranty. Each one has full test results, calibration certificate, and CD containing product's manual and complete software package. Our obligation under this warranty is to repair or replace any instrument or part thereof which, within three years after shipment, proves defective upon examination. To exercise this warranty, write or call your local Tabor representative, or contact Tabor Headquarters and you will be given prompt assistance and shipping instructions.

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**TABOR ELECTRONICS Ltd.**

# Specification 125MS/s PCI Bus Arbitrary Waveform Generator



## STANDARD WAVEFORMS

**Waveforms:** Sine, Triangle, Square, Pulse, Ramp, Sinc ( $\text{Sine}(x)/x$ ), Gaussian Pulse, Exponential Fall, Rising Pulse, Noise, DC.

**Frequency Range:** Waveform dependent  
**Source:** Internal synthesizer

## SINE

**Frequency Range:** 100µHz to 50MHz  
**Band Flatness:** 5% to 10MHz; 20%, to 50MHz

**Programmable Parameters:** Start phase, 0 to 360°  
**Harmonics and non-related spurious:**

at 5Vp-p < -55dBc for carrier frequencies 1MHz  
< -45dBc for carrier frequencies 5MHz  
< -35dBc for carrier frequencies 10MHz  
< -22dBc for carrier frequencies 50MHz

**Total Harmonic Distortion:** 0.05% to 100kHz

## TRIANGLE

**Frequency Range:** 100µHz to 12.5MHz  
**Start phase:** 0 to 360°

## SQUARE

**Frequency Range:** 100µHz to 50MHz  
**Duty cycle:** 1% to 99%  
**Rise/Fall time:** <10ns  
**Aberration:** <5% ±10mV

## PULSE

**Frequency Range:** 100µHz to 6.25MHz  
**Adjustable Parameters:**

Delay	0% to 99.9% of period
Rise Time	0% to 99.9% of period
High Time	0% to 99.9% of period
Fall Time	0% to 99.9% of period

**Rise/Fall time:** <10ns  
**Aberration:** <5% ±10mV

## RAMP

**Frequency Range:** 100µHz to 12.5MHz

### Adjustable Parameters:

Delay	0% to 99.9% of period
Rise Time	0% to 99.9% of period
Fall Time	0% to 99.9% of period

## SINC (SINE(x)/x)

**Frequency Range:** 100µHz to 3.125MHz

**"0" Crossing:** 4 to 100 cycles

## GAUSSIAN PULSE

**Frequency Range:** 100µHz to 3.125MHz

**Time Constant:** 10 to 200

## EXPONENTIAL FALL/RISING PULSE

**Frequency Range:** 100µHz to 6.25MHz

**Time Constant:** -20 to 20

**Noise Bandwidth:** 25 MHz

## DC

**Range:** -100% to 100% of amplitude

## ARBITRARY WAVEFORMS

### SAMPLE CLOCK

**Range:** 100MS/s to 125MS/s

**Vertical**

**Resolution:** 14bits

**Waveform**

**Memory:** 2Meg points standard

**Download Rate:** 5Meg points per second

### MEMORY SEGMENTATION

**No. of Segments:** 1 to 4096

**Min Segment Size:** 16 points

**Memory Interleave:** 4 (All trace lengths must be multiples of 4)

## SEQUENCED ARBITRARY WAVEFORMS

**Operation:** Permits division of the memory bank into smaller segments. Segments may be linked, and repeated in user-selectable fashion to generate extremely long waveforms.

**Advance Modes:** Automatic Sequence Advance  
No triggers required to step from one segment to the next. Sequence is repeated continuously through a pre-programmed sequence table

# Model TE5300



### Stepped Sequence Advance

Current segment is sampled continuously, external trigger advances to next programmed segment. Control input is TRIG IN connector.

### Single Sequence Advance

Current segment is sampled to the end of the segment including repeats and idles there. Next trigger advances to next segment. Control input is TRIG IN connector.

### Mixed Sequence Advance

Each step of a sequence can be programmed to advance either a) automatically (Automatic Sequence Advance), or b) with a trigger (Stepped Sequence Advance). External, Internal or software trigger

### Advance Source:

- Sequencer steps: From 1 to 4096
- Segment loops: From 1 to 128k

## COMMON CHARACTERISTICS

### MAIN OUTPUT

<b>Connector:</b>	Front panel BNC
<b>Stand-by:</b>	Output Off or Normal
<b>Impedance:</b>	50Ω, ±1%
<b>Protection:</b>	Protected against temporary short to case ground

### FREQUENCY

<b>Resolution:</b>	10 digits limited by 1S/s
<b>Accuracy:</b>	1ppm
<b>Stability:</b>	1ppm

### REFERENCE

<b>Standard:</b>	0.0001% (1ppm TCXO) initial tolerance over a 19°C to 29°C temperature range; 1ppm/°C below 19°C and above 29°C; 1ppm/year aging rate
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### External:

10MHz TTL, 50% ±2% duty cycle

### AMPLITUDE

<b>Range:</b>	100mV to 10Vp-p, into 50Ω; Double into open circuit
<b>Resolution:</b>	4 digits

# Specification

## 125MS/s PCI Bus

### Arbitrary Waveform Generator



#### ACCURACY(1kHz)

800mV to 8Vp-p  $\pm(1\% + 10mV)$   
 80mV to 799.9mVp-p  $\pm(1\% + 1mV)$

#### OFFSET

**Range:** 0 to  $\pm 4.5V$ , amplitude dependent  
**Resolution:** 2.2mV

**ACCURACY**  
**4V window:**  $\pm(1\% \text{ of reading} + 1\% \text{ of amplitude} + 2mV)$   
**400mV window:**  $\pm(1\% \text{ of reading} + 1\% \text{ of amplitude} + 200V)$

**FILTERS** 50MHz Elliptic  
 25MHz Elliptic

#### SYNC/MARKER OUTPUT

**Outputs:** Front panel SYNC Output BNC connector  
**Impedance:** 50Ω, ±1%  
**Level:** >2V into 50Ω, 4V nominal into 10kΩ  
**Protection:** Protected against temporary short to case ground  
**Validators:** BIT, LCOM  
**Position:** Point 0 to n, Programmable with 4-point resolution  
**Width Control:** Programmable  
 Range: 4 to 100000 waveform points  
 Resolution: 4 points  
**Source:** Main output

#### SINEWAVE OUTPUT

**Connector:** Front panel SMB  
**Impedance:** 50Ω, ±1%  
**Level:** 1V into 50Ω  
**Protection:** Protected against temporary short to case ground  
**Source:** Sample clock frequency  
**Frequency Range and Resolution:** Same as Sample clock  
 -3dB at 100MHz  
**Flatness:**  
**Total Harmonic Distortion:** 0.3% to 100kHz  
**Harmonics and non-related spurious:** -55dBc to 1MHz  
 -45dBc to 10MHz  
 -35dBc to 1000MHz

#### INPUTS

##### TRIG Input

**Connector:** Front panel BNC  
**Impedance:** 10kΩ, ±5%  
**Threshold Level:** TTL  
**Min Pulse Width:** 20ns  
**Slope:** Positive or negative going edge.

##### 10 MHz REFERENCE INPUT

**Connector:** Front panel SMB  
**Impedance:** 10kΩ, ±5%  
**Threshold Level:** TTL  
**Duty Cycle:** 50%, ±5%

#### MODULATION

##### FM

**Waveform Modulation:** Sine, Triangle, Square, Pulse, Ramp, Sinc ( $\text{Sinc}(x)/x$ ), Gaussian Pulse, Exponential Fall, Rising Pulse, Noise, DC, Arb  
**Source:** Internal  
**Resolution:** 10 digits  
**Accuracy:** 0.1%  
**Modulating Frequency**  
**Distortion:** <0.1%  
**Deviation Range:** 100mS/s to 125MS/s  
**Trigger Advanced Mode:** Automatic, Triggered, Gated or Software Command

##### Marker

**Output & Level:** Same as SYNC output.  
**Position:** Fixed at carrier frequency

#### FM - BUILT-IN STANDARD WAVEFORMS

**Carrier Waveforms:** Sine, Square, Triangle and Ramp

##### Modulation

**Frequency Range:** 1 mHz to 100 kHz

#### FM - DOWNLOADED ARBITRARY WAVEFORMS

**Modulation Source:** User waveform, any shape, 10 to 20000 waveform points

##### Modulation sample

**clock Range:** 1mS/s to 2MS/s

**Download Rate:** 5Meg points per second

## Model TE5300



#### FSK

**Carrier Sample Clock Range:** 100mS/s to 125MS/s  
**Source:** External, Front panel Trigger input BNC.  
 Low level Carrier sample clock  
 High level Hop frequency  
**Frequency Range:** From 10MHz to DC  
**FSK Delay:** Minimum 1 waveform cycle + 50ns

#### RAMPED FSK

**Ramp Time Range:** 10s to 1s, 3 digits, ±0.1%

#### Sweep

**Carrier Waveforms:** Sine, Square, Triangle, Ramp, Arb  
**Type:** Linear or Logarithmic  
**Direction:** Up or down, depending on the start and stop setting  
**Sweep Time:** 1ms to 1000 s, 7 digits, ±0.1%  
**Range:** 100mS/s to 125MS/s  
**Trigger Advanced Mode:** Automatic, Triggered, Gated or Software Command Marker Output and  
**Level:** Same as SYNC output.  
**Position:** Programmable for selected frequency

#### TRIGGERING CHARACTERISTICS

#### TRIGGER SOURCES

##### EXTERNAL

**Connector:** Front panel BNC  
**Level:** TTL  
**Slope:** Positive or negative  
**Frequency:** DC to 5MHz  
**Impedance:** 10kΩ, DC coupled

##### INTERNAL

**Range:** 100mHz to 2MHz  
**Resolution:** 7 digits  
**Accuracy:** 0.01%

**Software:** SCPI command

# Specification

## 125MS/s PCI Bus

### Arbitrary Waveform Generator

**Model TE5300**



#### TRIGGER START PHASE

<b>Description:</b>	Waveform starts from point n and completes at point n-1.
<b>Range:</b>	0 to 1999999 waveform points (2Meg)
<b>Resolution:</b>	4 points

#### START/STOP CONTROL (BREAKPOINT)

<b>Range:</b>	0 to 1999999 waveform points (2Meg)
<b>Source:</b>	External (Rear Panel Trigger Input BNC) or software command
<b>Resolution:</b>	4 points
<b>Breakpoint Error:</b>	$\pm 4$ points

#### SYSTEM DELAY

<b>Trigger to waveform output:</b>	1 Sample Clock+120ns
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<b>GATED MODE</b>	External signal enables generator. First output cycle synchronous with the active slope of the triggering signal. Last cycle of output waveform always completed
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#### BURST

<b>Waveforms:</b>	Sine, Triangle, Square, Pulse, Ramp, Sinc ( $\text{Sine}(x)/x$ ), Gaussian Pulse, Exponential Fall, Rising Pulse, Noise, DC, Arb
<b>Number of cycles per burst:</b>	1 to 128k
<b>Trigger source:</b>	Manual, External or Internal

#### MULTI-INSTRUMENT SYNCHRONIZATION

<b>Description</b>	Multiple instruments can be connected together and synchronized to provide multi-channel synchronization.
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#### SAMPLE CLOCK

<b>Source:</b>	From Master card to slave boards through the local bus
<b>Range and Resolution:</b>	Same as Sample Clock, but limited to 80MS/s
<b>Initial Skew:</b>	<20ns to the first master; 20ns cumulative to additional slaves

<b>Phase Offset Between Instruments:</b>	Programmable from 0 to n points
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#### GENERAL

<b>Power Requirements:</b>	10Wmax
<b>Current Consumption:</b>	+5V - 30mA +12V - 200mA -12V - 200mA +3.3V - 1.4A
<b>Operating temperature:</b>	0°C - 40°C
<b>Humidity (non-condensing)</b>	11°C to 30°C: 85 % 31°C to 40°C: 75 %
<b>Storage temperature:</b>	-40°C to + 70°C.
<b>Dimensions:</b>	Single width, 3U high
<b>Weight:</b>	Approx 0.5kg
<b>Safety:</b>	Designed to meet IEC 1010-1, UL 3111-1, CSA 22.2 #1010
<b>EMC:</b>	CE marked.
<b>Reliability:</b>	MTBF per MIL-HDBK-217E, 25°C, Ground Benign
<b>Workmanship Standards:</b>	Conform to IPC-A-610D
<b>Supplied Accessories:</b>	CD containing Operating Manual, ArbConnection software and developer libraries.
<b>Warranty:</b>	3 years standard

#### ORDERING INFORMATION

<b>MODEL</b>	<b>5300</b>
125MS/s PCI Bus Arbitrary Waveform Generator	



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