

Tektronix
AFG3000 Series
Pulse Generation Fact Sheet

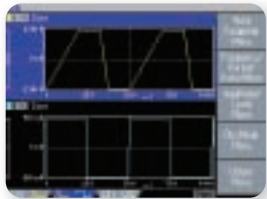


Easily accessible function keys save time.

AFG3000 Series Arbitrary/Function Generators

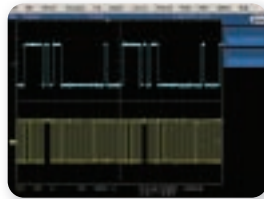
Pulse, Function and Arbitrary Waveform Generator in a Single Unit---get 3-in-1

The AFG3000 is a better alternative to a standard Pulse Generator in many applications. Find out why!



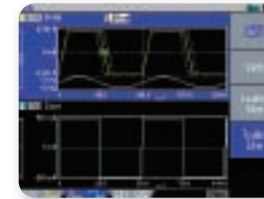
Flexible Pulse Generation

Generate pulses with independently adjustable rise and fall times on channel 1, and synchronous clock signal on channel 2 for thorough design evaluation.



Generate Serial Data

Arbitrary waveform capability enables the generation of PRBS or data sequences for low speed serial standards such as I2C, CAN or Intellibus up to 128 kbits in length.



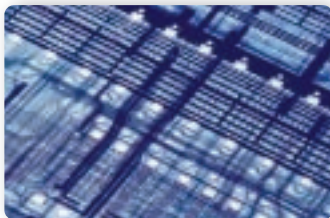
Add Jitter or Noise

Built-in pulse width modulation and selectable noise addition in every channel enables jitter tolerance and stress testing of devices with a single signal source.

Working With These Types of Demanding Applications?

Evaluation of digital components/circuits for:

- Clock source for PCI-Express, USB, SATA, ASIC
- PLL bandwidth measurement
- Jitter test for PCI-Express & SATA
- LCD display evaluation
- Automotive/bus simulation
- DSL line driver in IC design
- Other



Consider This

- ▶ Do you need to generate pulses or square waves?

The AFG3000 Series generates up to 120 MHz pulse and square waves with 2.5 ns rise/fall time.

- ▶ Do you need a convenient way to add jitter and noise to pulses?

Add jitter and noise to the pulse inside the AFG unit. Save setup time, bench space, and the cost of a separate jitter or noise source.

- ▶ Do you often adjust waveform parameters during a test?

Change settings on the fly with convenient front panel keys dedicated to specific functions and parameters. Basic parameters are not buried in layers of soft menus.

- ▶ Do you need to evaluate your device thoroughly against tight design specifications?

The AFG3000 series generates pulses with direct edge, duty cycle, phase, frequency and amplitude control.

- ▶ Do you need to generate other functions aside from pulses or square waves?

The AFG3000 generates up to 240 MHz sine, up to 120 MHz arb, as well as ramp and seven other standard waveforms.

Your Needs Met

- ▶ Meet development schedule expectations

Minimize time spent setting up for the test and evaluating the device under test (DUT)

- ▶ Meet or exceed target specifications for designs

Ability to comprehensively test leading edge designs to know for sure that they deliver market winning end user products

- ▶ Maximize your ability to deliver detailed end product specifications to purchasers

Get the performance and functionality to conduct a complete design verification, giving your the end customer excellent documentation the final product - a value add compared to competing products

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Added Value

- ▶ Signal display matches the actual signal output
Eliminates time consuming trouble shooting
- ▶ Instrument easy to operate
No frequent consultation of user manual required
- ▶ 20 front panel buttons dedicated to specific functions and parameters
Basic instrument settings at your finger tips - not buried in layers of soft menus
- ▶ Minimal footprint on the bench with only one compact unit
Enough space left for DUT and other instruments, plus your coffee cup
- ▶ Tremendous versatility
Numerous available waveform shapes, parameter settings, run modes, trigger options, modulation capabilities, and more

AFG3251/3252 - a great alternative to just a pulse generator

Feature/Capability	AFG3251/ AFG3252	Pulse/pattern generators
Generate pulse with edge, duty cycle, phase, frequency and amplitude control	yes	yes
Add jitter and noise to pulse inside box	yes	no
Generate sine, arb, ramp	yes	no
Signal amplitude	5 V into 50 Ω	10 V into 50 Ω
Low jitter	good	better
Multi-level pulse signal	some, via arb	some
Generate data pattern, PRBS	some, via arb	yes

The AFG3251/3252 is cost effective and versatile: It delivers powerful pulse generation, low speed pattern generation, and many other waveforms.

The AFG3000 Arbitrary/Function Generator:

A cost efficient Pulse, Function and Arbitrary Waveform Generator in a Single Unit---get 3-in-1!

Test Equipment Depot | 800.517.8431 | 99 Washington Street Melrose, MA 02176 | FAX 781.665.0780 | TestEquipmentDepot.com

