

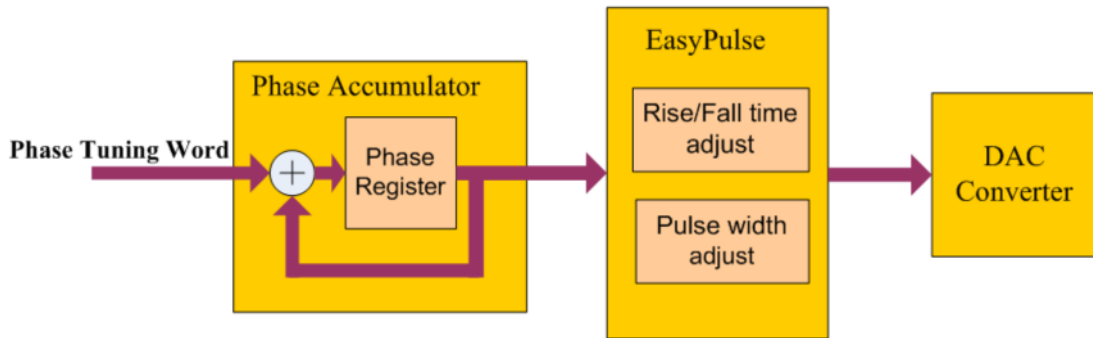
Product Overview

Siglent Technologies invented the pulse generator algorithm EasyPulse, which is found in the SDG5000 waveform generators. Based on this new technology, the SDG5000 is capable of generating a pulse signal with low jitter, fast rising and falling edge (frequency independent effect), small duty cycle, edge and pulse width can be a wide range of adjustment.

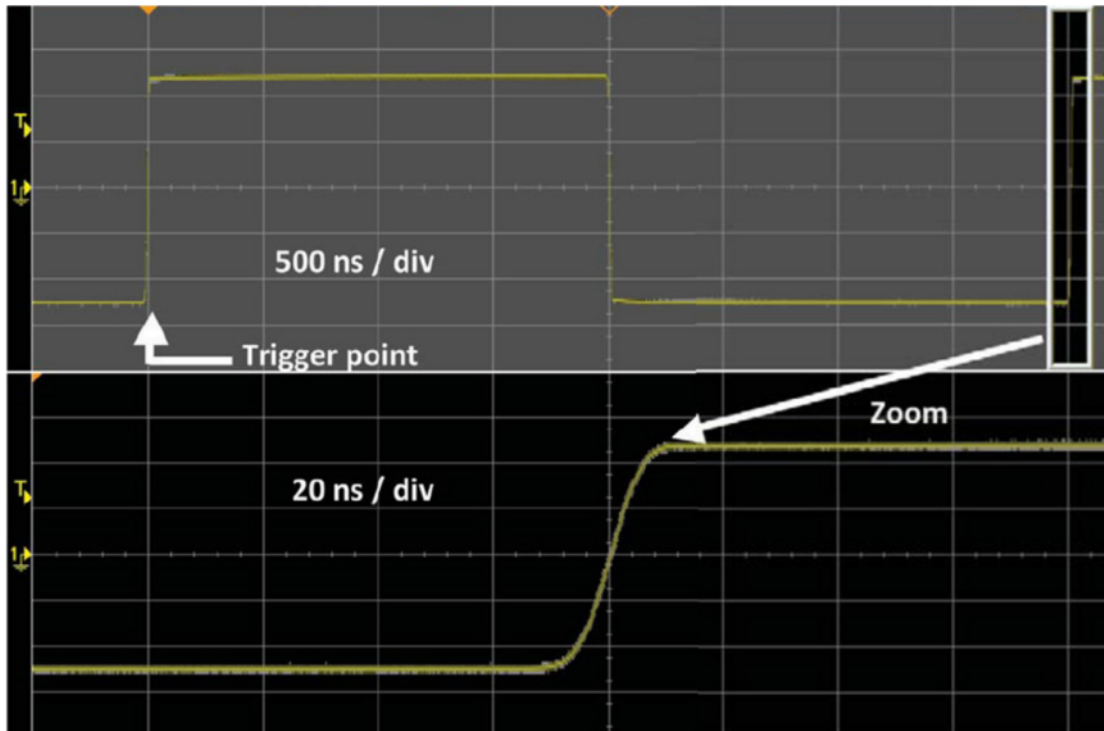
Key Features

- ◆ Up to 160MHz Output Frequency
- ◆ 14-bit Vertical Resolution
- ◆ Dual Floating Output Channel
- 500MSa/S Sampling Rate
- Memory depths of 512kpts for CH2 and 16kpts for CH1
- EasyPulse Technology

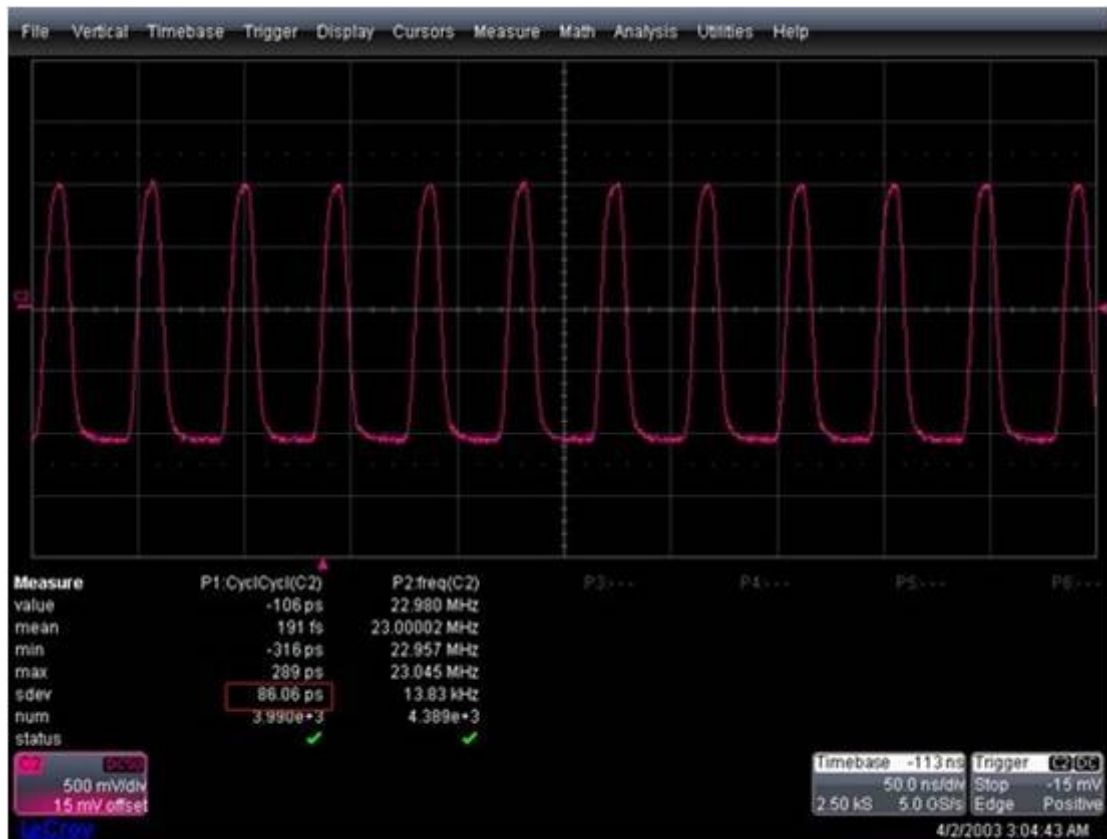
Characteristics EasyPulse Technology



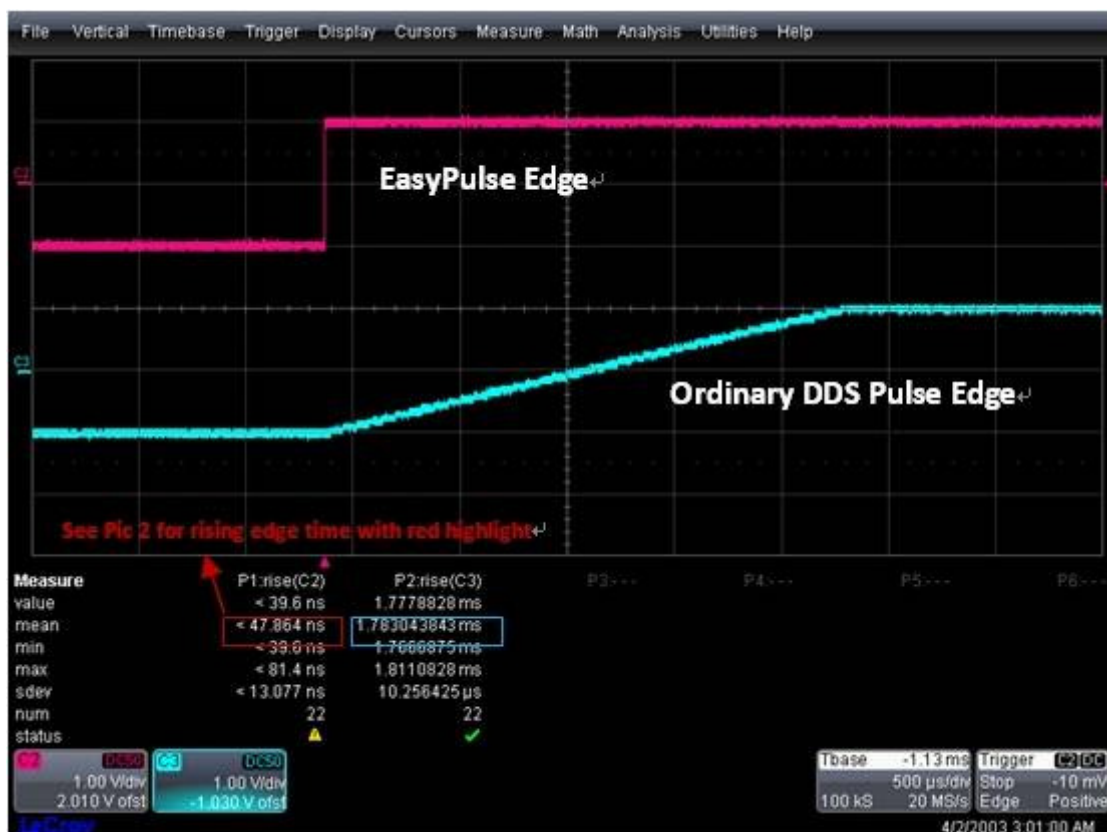
Low jitter; Edge and pulse width adjustable over a wide range
 At very low frequencies (< 1Hz) the SDG5000 can still output pulses with rapid rising/falling edge (6ns)
 At low frequencies, pulse width can also be kept to a minimum 12ns, duty cycle can be as small as 0.0001%



EasyPulse shows no one-reference-period-jitter, compared to DDS.



Low jitter -- less than 100ps cycle-cycle RMS jitter



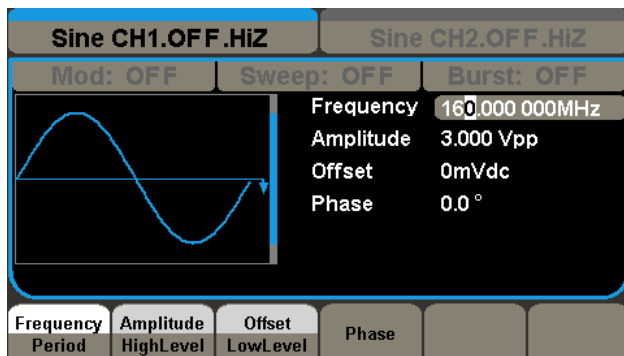
At frequency 1Hz, can still be able to output a pulse with a rapid rising/falling edge (6ns); but the ordinary DDS pulse edge is very slow, at the millisecond level.



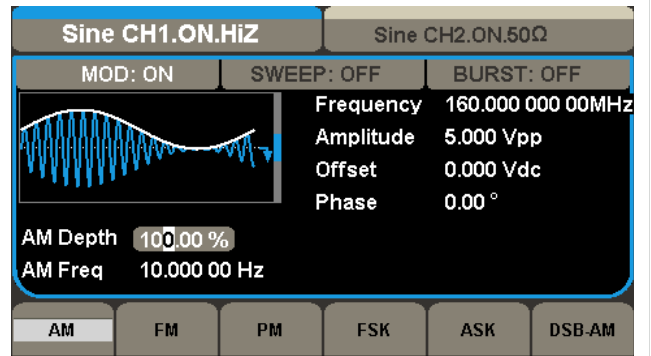
At 0.1Hz pulse, Easypulse pulse width can also be kept to a minimum 12ns, duty cycle can be as small as 0.0001%; but the ordinary DDS pulse width is wider, duty cycle is not adjustable.



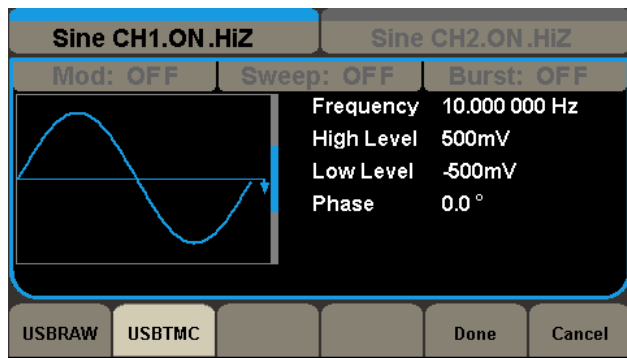
At 0.1Hz pulse, Easypulse edge can be a wide range of adjustment, the minimum edge is 6ns the maximum edge can be adjusted to 6s; but the ordinary DDS pulse edge adjustment is more restricted.



Output frequency up to 160MHz



Abundant modulation functions, sweep-frequency output, burst output



Support USB-TMC protocol and SCPI programming command control



Read arbitrary waveform files, read oscilloscope storage files (.CSV)

Ordering Information

Product Model

SDG5162, 160MHz, 2 channel SDG5122, 120MHz, 2 channel
 SDG5112, 110MHz, 2 channel SDG5082, 80MHz, 2 channel





Standard Accessories

A USB cable, A QuickStart Guide, A product qualification certificate, Warranty Card

A power cord designed for the instrument and authorized by local country CD (contains EasyScope PC software)

Optional Accessories

USB-GPIB adapter BNC Cable

	Max output frequency	Max sampling rate	Vertical resolution	Wave length	Channels
 SDG5162	160MHz	500M Sa/s	14bit	CH1:16Kpts, CH2:512Kpts	2CH
 SDG5122	120MHz	500M Sa/s	14bit	CH1:16Kpts, CH2:512Kpts	2CH
 SDG5112	110MHz	500M Sa/s	14bit	CH1:16Kpts, CH2:512Kpts	2CH
 SDG5082	80MHz	500M Sa/s	14bit	CH1:16Kpts, CH2:512Kpts	2CH

Verkauf und technische Betreuung

mem Messtechnik & Elektronik GmbH Telefon: 08071 923060 FAX: 08071 9230619
 Pilartzstr. 9 D-83549 Eiselfing mail@mem-gmbh.de www.mem-gmbh.de