

Product overview:

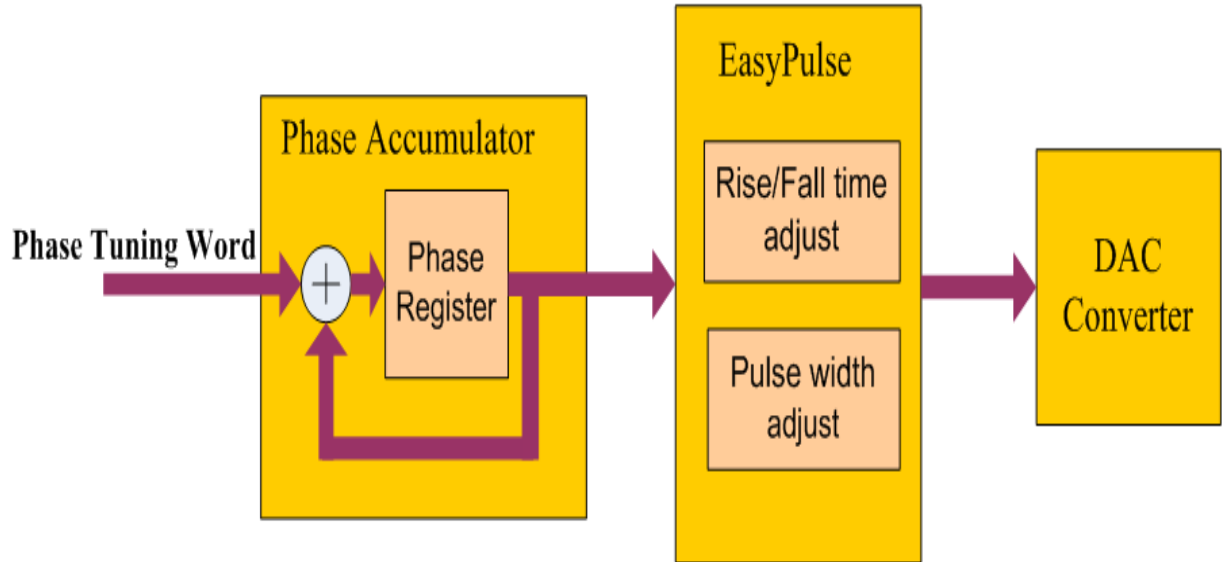
Siglent independently invented a pulse generator algorithm EasyPulse, which is applied to the featured SDG5000 waveform generators at present. Based on this new technology, SDG5000 is capable of generating a pulse signal with low jitter, fast rising and falling edge (frequency independent effect), small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

Features and Benefits:

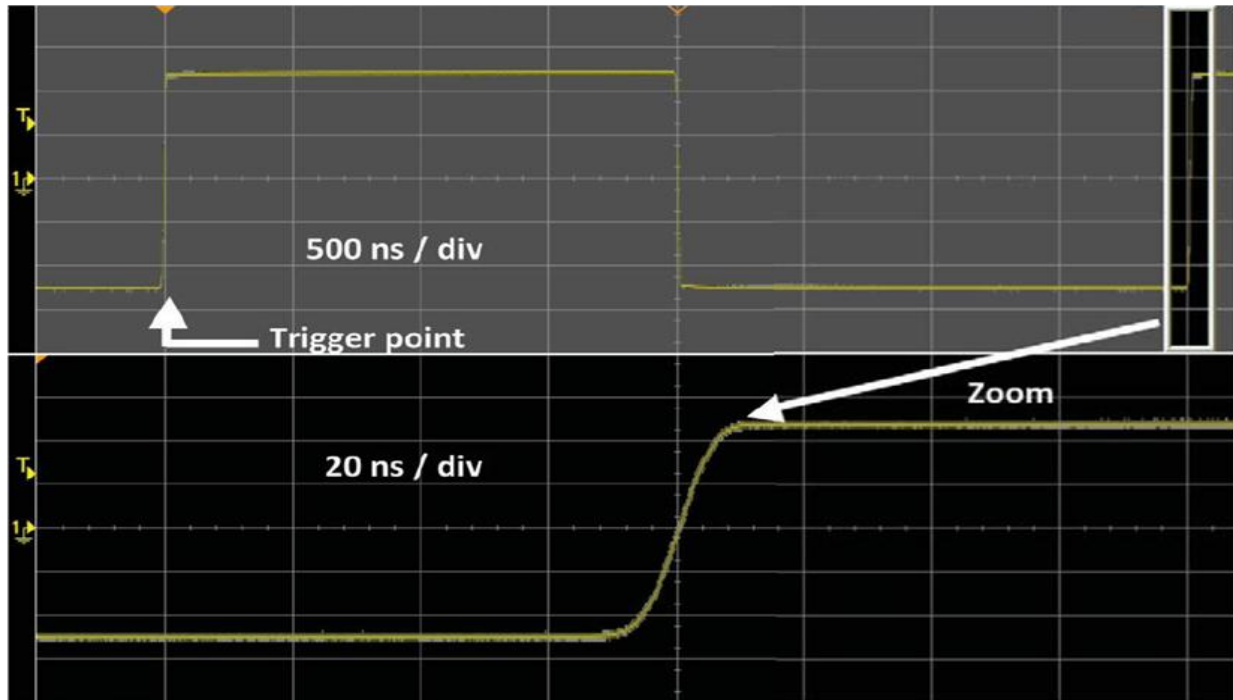
- Up to 160MHz Output Frequency
- 500MSa/S Sampling Rate
- 14-bit Vertical Resolution
- 512kpts for CH2 and 16kpts for CH1 Wave Length
- 2-CH
- EasyPulse Technology

Design Features:

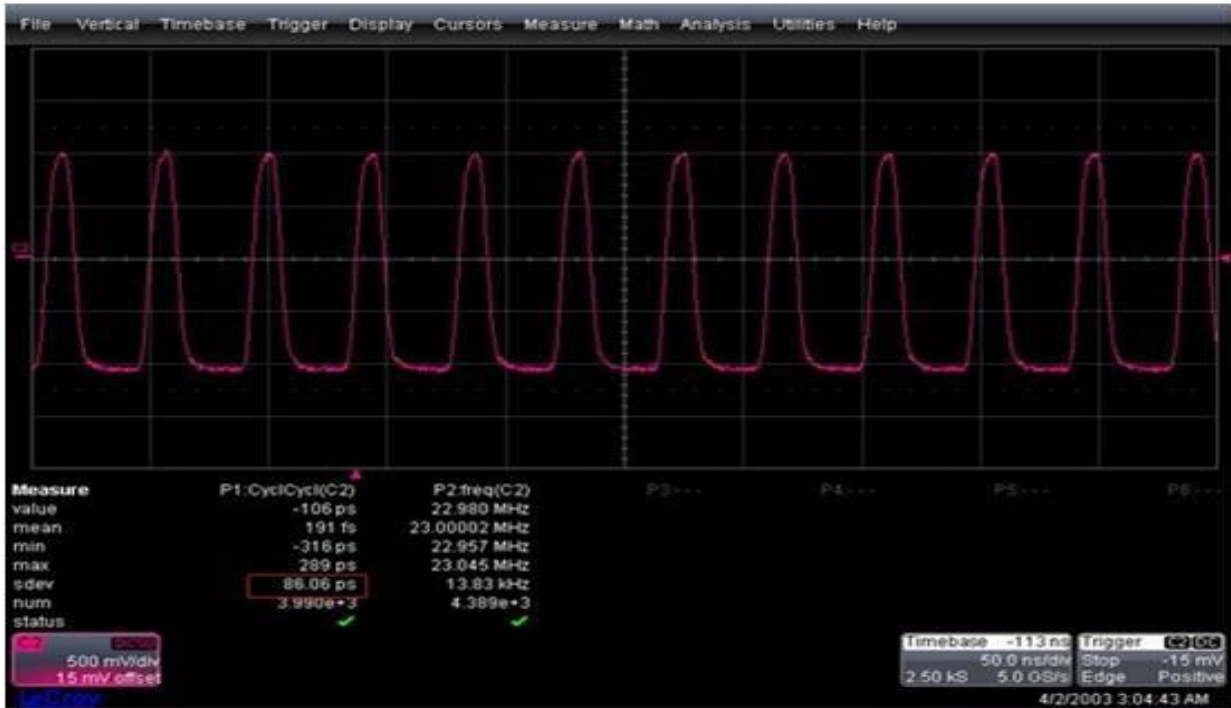
- Low jitter
- Edge and pulse width can be a wide range of adjustment
- At very low frequencies (< 1Hz) can still be able to output the pulse with a rapid rising/falling edge (6ns)
- At low frequencies, pulse width can also be kept to a minimum 12ns, duty cycle can be as small as 0.0001%
- Do not need any internal waveform data, pulse parameters can be easily and instantly change



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.



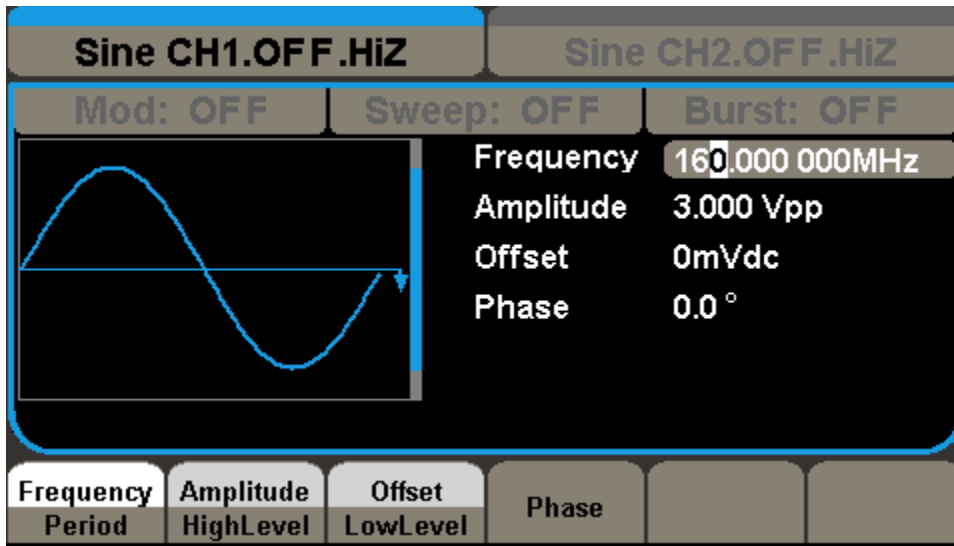
At 0.1Hz pulse, Easypulse pulse width can also be kept to a minimum 12ns, duty cycle can be as small as 0.0001%; but the ordinary DDS pulse width is wider, duty cycle is not adjustable.



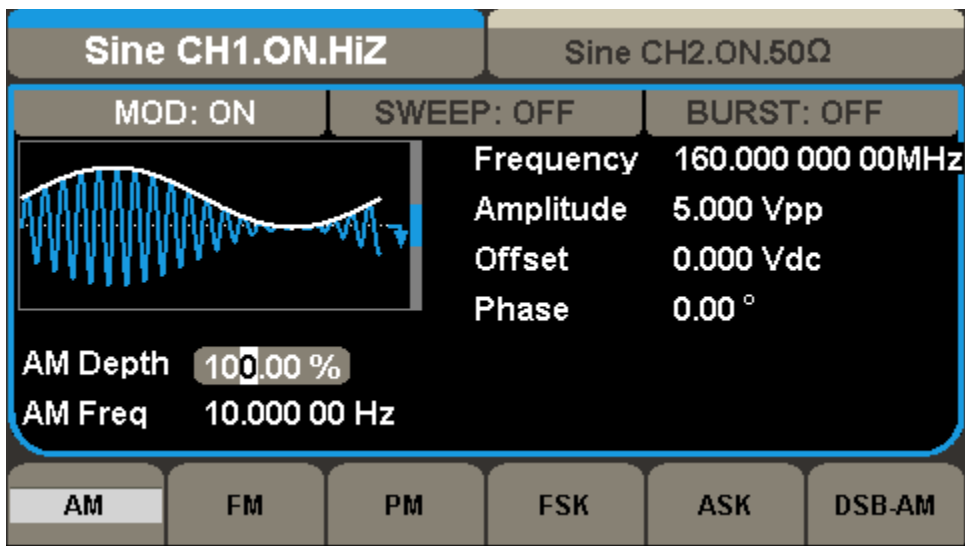
At 0.1Hz pulse, Easypulse edge can be a wide range of adjustment, the minimum edge is 6ns the maximum edge can be adjusted to 6s; but the ordinary DDS pulse edge adjustment is more restricted.



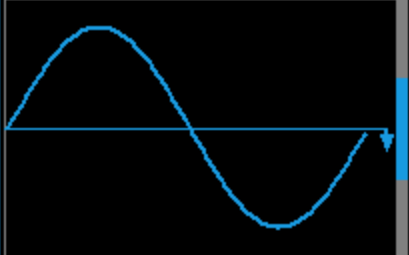
Output frequency up to 160MHz















Abundant modulation functions, sweep-frequency output, burst output



Support USB-TMC protocol and SCPI programming command control

Sine CH1.ON.HiZ		Sine CH2.ON.HiZ	
Mod: OFF	Sweep: OFF	Burst: OFF	
		Frequency	10.000 000 Hz
		High Level	500mV
		Low Level	-500mV
		Phase	0.0 °
USBRAW	USBTMC		
		Done	Cancel

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

Addr(0) 0:/GHO/DEEP.GHO	
Local (C:)	
USB Device (0:)	
<ul style="list-style-type: none">  BMP  GHO  MANGROVE  ~1 	<ul style="list-style-type: none">  DEEP.GHO  DESKTOP.INI  README.TXT  SDS00001.CSV  SDS00001.DAV  SDS00002.CSV  SETUP_~1.EXE  icon.ico
FileType	Browser
State	Directory
Save	Recall
Delete	Cancel

Ordering Information:

MODEL	SDG5000
	SDG5162 160MHz 2 channel
	SDG5122 120MHz 2 channel
	SDG5112 110MHz 2 channel
	SDG5082 80MHz 2 channel
Standard accessories	A USB cable
	A QuickStart Guide
	Warranty Card
	A product qualification certificate
	A power cord designed for the instrument and authorized by local country
	CD (contains EasyScope PC software)
Optional accessories	USB-GIPB adapter
	BNC line