

Features

- ➤ 1 or 2 channel is selectable, differential outputs
- > Pulse, sine, square, ramp, noise, arbitrary and pattern (optional) could be generated
- > Noise, with selectable crest factor, and signal repetition time of 26 days
- > 14-bit, 2GSa/s arbitrary waveform, 512k samples deep arbitrary waveform memory per channel
- > FM, AM, PM, PWM, FSK modulation capabilities up to 10MHz
- > Trigger, sweep and burst modes are supported
- > Pattern generator with 16Mbit memory is optional
- > Communication interfaces USB Device, USB Host, LAN and GPIB are provided





Specifications

Model		SU5601	SU5602	SU5603	SU5604
Output		1	2	1	2
Patter Generator		Yes	Yes	No	No
	Frequency	1µHz~120MHz			
Pulse	Resolution	1µHz			
	Pulse Width	4.1ns to (period-4.1ns) (limited by edge time and frequency)			
	Accuracy	± 500ps ±50ppm (edge time 2.5ns)			
	Transition Time	2.5ns~1000s (10%~90%)			
	Accuracy	± 500ps (< 50ns,1Vpp)			
Sine	Frequency	1µHz~240MHz			
	Resolution	1µHz			
Square	Frequency	1µHz~120MHz			
	Duty cycle	(Frequency/240MHz)~1-(Frequency/240MHz)			
Ramp	Frequency	1µHz~5MHz			
	Symmetry	0.0%~100%			
	Bandwidth	120MHz typ.			
Noise	Amplitude Distribution	Selectable Gaussian,	user defined		
	Crest factor (peak/RMS)				
	selectable	3.1, 4.8, 6.0, 7.0 typ.	(Gaussian distribution)		
	Repetition Time	26 days			
Arbitrary	DAC Sample Rate	2GSa/s,Fixed			
	Length	2~512k points			
	DAC Resolution	14 bits			
	Frequency	1µHz~120MHz			
	Resolution	1µHz			
	PP Jitter	1ns typ.			
	Carrier waveform: Sine, square, ramp, arbitrary				
Modulation	AM, FM, PM		ine, square, ramp, arbital		
				s, aibiuary	
		modulation frequency: 1MHz~10MHz Carrier waveform: Sine, square, ramp, arbitrary			
	FSK Internal modulation:50% square				
	FSK			0.40111.5	
				C~10MHz, Frequency F	kange: TmHz~240N
	PWM	Carrier waveform: Pul			
			ine, square, ramp, noise	e, arbitrary	
		Offset: 0%~100% puls			
Sweep	Waveform	Pulse, sine, square, ra	amp, arbitrary		
	Sweep time	100μs~500s			
	Start/Stop frequency		frequency depends on s	elected waveform)	
Burst	Waveform	Pulse, sine, square, ra	amp, arbitrary		
	Frequency	1µHz~120MHz			
	# of waveforms in a burst	2~231-1			
Output	Max frequency	120MHz pulse/240MH			
	Туре	Single-end or differen			
	Amplitude (50Ω~50Ω)	50mVpp~10Vpp (<50			
		50mVpp~5Vpp (≤120			
	(0011 0011)	50mVpp~3Vpp (>120	MHz)		
	DC offset range	Voltage ($50\Omega \sim 50\Omega$) -10V \sim +10V typ.			
Pattern	Data rate	1µbit/s~120Mbit/s			
	Pattern memory	16Mbit			
	Number of levels	2,3 or 4 (user selectal	ole)		
	Trigger modes	Continuous, gated, or	ne bit per trigger event, o	ne sequence per trigger	event
		Internal: PRBS -7, 9,			
Generator	D-#	User Defined			
Jenerator for SU5601/5602)	Pattern sources				
	Pattern sources		h pattern mode		
	Modulation	External: pass through	h pattern mode		

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