

Features

- Max 35 MHz frequency output
- ullet 500 MSa/s sample rate, vertical resolution 1 μ Hz
- 14 bits vertical Resolution, 10 Marb waveform length
- Comprehensive waveform output : 6 basic waveforms, and 150 built-in arbitrary waveforms
- Comprehensive modulation functions: AM, FM, PM, FSK, 3FSK, 4FSK, PSK, OSK, ASK, BPSK, PWM, sweep, and burst
- High-accuracy frequency counter integrated, supported range 100 mHz -
- SCPI, and LabVIEW supported
- 7 inch (800 × 480 pixels) multi-touch screen support



Specifications

Channels	2
Frequency Output	35 MHz
Sample Rate	500 MSa/s
Vertical Resolution	14 bits
Waveform	
Standard Waveform	Sine, Square, Pulse, Ramp, Noise, and Harmonic
A shifteen shallow of some	Exponential Rise, Exponential Fall, sin(x)/x, Step Wave, and others, Total 150
Arbitrary Waveform	Built-in Waveforms, and User-Defined Arbitrary Waveform
Frequency (resolution 1µHz)	
Sine	1 μHz-35 MHz
Square	1 μHz ~ 15 MHz
Pulse	1 μHz ~ 15 MHz
Ramp	1 μHz ~ 3 MHz
Noise	35 MHz (-3 dB, typical)
Arbitrary Waveform	1 μHz ~15 MHz
Harmonic	1 μHz ~17.5 MHz
Accuracy	±2 ppm, 25°C±5°C
Sine Wave Spectrum Purity	
Harmonic Distortion	DC ~ 1 MHz: <-65 dBc 1 MHz ~ 10 MHz: <-60 dBc 10 MHz ~ 60 MHz:
(typical (0dB))	<-55 dBc 60 MHz ~ 120 MHz: <-50 dBc
Total Harmonic Distortion	< 0.05 %, 10 Hz to 20 kHz, 1 Vpp
Spurious (Non-Harmonic)	≤10 MHz: <-70 dBc
(typical (0dB))	>10 MHz: <-70 dBc + 6 dB/ octave band
Phase Noise	Typical (0 dBm, 10 kHz offset)
(typical (0 dBm, 10 kHz deviation))	1 MHz: -110 dBc/Hz



Square	
Rise / Fall Time	<8 ns
Overshoot	< 3%
Duty Cycle	50.0% (Fixed)
Jitter (rms)	≤5 MHz:<300 ps + 2 ppm;>5 MHz 300 ps
Pulse	
Period	66.667 ns~1000000 s
Pulse Width	≥18 ns
Rise / Fall Time	≧8 ns
Overshoot	< 3%
Jitter (rms)	≤5 MHz:<300 ps + 2 ppm;>5 MHz 300 ps
Duty cycle	0.1%~99.9%
Ramp	
Linearity	≤0.5% of peak output (typical, 1 kHz, 1 Vpp, 50% symmetry)
Symmetry	0% ~ 100%
Arbitrary	
Waveform Length	2 points - 10M points
Minimum Rise/Fall Time	<8 ns
	≤5 MHz:<300 ps + 2 ppm;
Jitter (rms) (1MHz,1Vpp,50Ω)	>5 MHz 300 ps
Amplitude	
	1 mVpp ~ 10 Vpp (≤ 25 MHz) ;
Into 50Ω load	1 mVpp ~ 5 Vpp (≤60 MHz);
	pp - 2pp (====) /
Resolution	0.1 mVpp or 4 digits, (Amplitude > 1 Vpp: 1 mVpp)
DC	
Offset Range	±5 V(50 Ω)、±10 V(High Resistance)
(AD+DC)	
DC Offset Resolution	0.1 mV or 4 digits
Load Impedance	50 Ω (Typical)
DC Offset Accuracy	±(1% of setting + 1 mVpp+ amplitude Vpp * 0.5%) (typical 1 kHz sine, 0V offset)
Unit	mVpp, Vpp, Vrms, mVrms, dBm
Modulation	1
Туре	AM, DSB-AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, 3FSK, 4FSK, OSK, PWM, SUM
DSB-AM	1
Carrier Waveform	Sine, Square, Ramp
Source	Internal / External
Internal Modulation Waveform	Sine, Square, Ramp
AM	
Carrier Waveform	Sine, Square, Ramp, and Arbitrary (Except DC)
Source	Internal / External
Modulating Waveform	Sine, Square, Ramp, Noise, and Arbitrary
Depth	0.0%~120.0%
Modulating Frequency	2 mHz ~1 MHz



FM	
Carrier Waveform	Sine, Square, Ramp, and Arbitrary (Except DC)
Source	Internal / External
Modulating Waveform	Sine, Square, Ramp, Noise, and Arbitrary
Modulating Frequency	2 mHz ~1 MHz
PM	
Carrier Waveform	Sine, Square, Ramp, and Arbitrary (Except DC)
Source	Internal / External
Modulating Waveform	Sine, Square, Ramp, Noise, and Arbitrary
Phase Deviation	0° - 180°
Modulating Frequency	2 mHz - 1 MHz
ASK	Z 11111Z - 1 1VI111Z
Carrier Waveform	Sine, Square, Ramp, and Arbitrary (Except DC)
Source	Internal / External
Modulating Waveform	Square with 50% Duty Cycle
Key Frequency	2 mHz - 1 MHz
FSK/3FSK/4FSK	
Carrier Waveform	Sine, Square, Ramp, and Arbitrary (Except DC)
Source	Internal
Modulating Waveform	Square with 50% Duty Cycle
Key Frequency	2 mHz - 1 MHz
PSK	
Carrier Waveform	Sine, Square, Ramp, and Arbitrary (Except DC)
Source	Internal / External
Modulating Waveform	Square with 50% Duty Cycle
Key Frequency	2 mHz - 1 MHz
BPSK	
Carrier Waveform	Sine, Square, Ramp and Arbitrary (Except DC)
Source	Internal
Modulating Waveform	Square with 50% Duty Cycle
Key Frequency	2 mHz - 1 MHz
OSK	
Carrier Waveform	Sine, Square, Ramp, and Arbitrary (Except DC)
Source	Internal
Oscillation Time	Square with 50% Duty Cycle
Key Frequency	2 mHz - 1 MHz
Concussion Time	8 ns - 249.75 s
SUM (Dual tone)	
Carrier Waveform	Sine, Square, Ramp
Source	Internal / External
Internal Modulation Waveform	Sine, Square, Ramp,White Noise, Arbitrary Waveform
Internal am Frequency	2 mHz~1 MHz
Depth	0.0%~100.0%
PWM	
Carrier Waveform	Pulse
Source	Internal / External
554100	



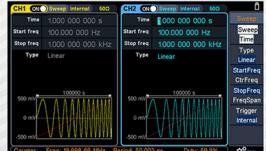
Modulating Waveform	Sine, Square, Ramp, Noise, and Arbitrary
Width Deviation	0~99%
Modulating Frequency	2 mHz ~ 1 MHz
Deviation	0~min
Pulse Train Responses	
Carrier	Sine, Square, Harmonic, Pulse, Noise and Arbitrary Waveform
Carrier Frequency	2 mHz ~ BW/2
Туре	Count (1 to 1000000 cycles), Unlimited, Gated
Internal Cycle	20 ns ~ 500 s
Gated Source	External Trigger
Sweep Characteristic	
Carrier	Sine, Square, Ramp, and Arbitrary (except DC)
	Sine: 35 MHz
Maximum / Termination	Square: 15 MHz
Frequency	Ramp: 3 MHz
	Arbitrary: 15 MHz (Built-in) or 25 MHz (User Defined)
Туре	Linear, Logarithmic, Step
Direction	Up / Down
Scanning Time	1 ms to 500 s ± 0.1%
Trigger Source	Internal, External, Manual
requency Counter	
Function	Frequency, period, +width, -width, +duty, and -duty
Frequency Range	100 mHz ~ 200 MHz
Frequency Resolution	7 Digits
Coupling Mode	AC, DC
nput / Output	
Display	7"800 x 480 Pixels Touch Screen LCD
	Frequency Counter,
	External Modulation Input,
Input Mode	External Trigger Input,
	Internal Clock Output,
	External Reference Clock Input / Output
Communication Interface	USB Host, USB Device, LAN, COM
Mechanical Specifications	
Size	340 mm x 177 mm x 90 mm
Weight	2.3 kg



Equal Performance Dual Channel Output



Rich Sweep Function



Rich Analog and Digital Modulation



Built-In 152 Arbitrary Waveforms







Art Nr. RND 360-00002