

S1132 Series Multi-Standard Signal Generator

(Frequency Range: 9kHz - 6GHz)



Key Features

- Frequency range: 9kHz - 6GHz
- Typical output power: -120dBm to +10dBm
- Standard IF input port
- Multiple digital modulation formats, built-in IQ modulator
- AM/FM/ Φ M analog modulation functions, modulation rate up to 1MHz
- Support pulse modulation, minimum pulse width 200ns
- Support linear frequency modulation, can simulate radar signals
- Customizable dedicated communication modulation (SSB/DSB/CW)
- As frequency upper conversion, support external input IF signals
- Internal modulation source: sine/ square/ triangle/ sawtooth waves
- USB/ LAN remote control interface, SCPI supported

Overview

Saluki S1132 series RF signal generator provides a wide range of product choices for different functional requirements and application scenarios. Each type of product has outstanding features in its function to characterize the focus of its testing field. S1132 series signal generator features a variety of key analog modulation functions (AM/FM/ Φ M/pulse modulation), standard digital modulation functions (ASK/PSK/FSK) and customizable dedicated modulation methods (SSB/DSB/CW modulation, etc.).

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In addition, S1132 integrates frequency/amplitude scanning, amplitude-frequency scanning, linear frequency modulation, low-frequency output and up-conversion functions, making the signal generator a flexible and versatile instrument suitable for teaching, research, product development, production and maintenance. Rich logic hardware interface and widescreen LCD display make it easy to control various operations. The complete standard SCPI command set and universal USB, LAN interfaces bring great convenience to your remote control and secondary development.

Technical Specifications

Model	S1132A	S1132B
Frequency		
Frequency Range	9kHz - 6GHz	
Frequency Resolution	0.23Hz	
Internal Reference		
Reference Frequency	10MHz	
Temperature Stability	±0.5ppm (option: ±5ppb)	
Internal Reference Output	10MHz, +2dBm (typ.)	
Spectral Purity		
Harmonic	≤ -40dBc (typ.)	
Non-harmonic	≤ -65dBc (typ.)	
Single Sideband Phase Noise	f=1GHz	-100dBc/Hz@10kHz

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Model	S1132A	S1132B	
Amplitude			
Output Power Range	9kHz - 50kHz	-120dBm to 0dBm	
	50kHz - 6GHz	-120dBm to +10dBm	
Power Accuracy	±1.0dB (typ.)		
Output Power Resolution	0.1dB		
Amplitude/ Frequency Scan			
Scan Type	Step scan, List scan		
Trigger Mode	Auto, External		
Internal Modulation Source (LF)			
Waveform	Sine, square, triangle, sawtooth		
Frequency Range	Sine	0.1Hz – 500kHz	
	Square	0.1Hz - 20kHz	
	Triangle/ Sawtooth	0.1Hz - 100kHz	
Modulation			
Analog modulation (AM/FM/ΦM): support internal/external modulation source			
AM	Modulation Depth	0 -100%	0 -100%
	Modulation Rate	20Hz - 1MHz	1Hz - 1MHz
FM	Frequency Offset	5MHz	5MHz
	Modulation Rate	20Hz - 1MHz	1Hz - 1MHz
ΦM	Modulation Phase	0° - 360°	0° - 360°
	Modulation Rate	20Hz - 1MHz	1Hz - 1MHz

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Model	S1132A	S1132B
Digital modulation: support internal/external modulation source		
IQ modulator	Nonsupport	Support
Internal source	ASK/2FSK/4FSK/8FSK/ 2PSK/4PSK/8PSK	Standard digital modulation
External source	Modulation sequence	Arb (I/Q data)
Modulation rate	1Hz - 1MHz	10kHz - 20MHz
Pulse modulation		
Break-make ratio	≥ 70dB	
Pulse period	200ns - 160s	
Pulse width	100ns - 85s	
Linear Frequency Modulation (LFM)		
Scan range (max.)	20MHz	Nonsupport
Scan speed	20ns - 20ms	
Frequency Upper Conversion		
Input IF Frequency Range	200MHz ± 10MHz	
Input IF Power Range	-50dBm to 0dBm	

Standard Package

No.	Item	Qty.
1	Main Machine	1 set
2	Power Cord	1 pcs
3	Coaxial Adapter	1 pcs

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Options

Option No.	Item
S1132-02	RF Upper Conversion Device
S1132-03	Analog External Audio Modulation
S1132-05	High Stability Time Base Option
S1132-06	Power Meter Control Kit
S1132-07	Omnidirectional Antenna (300MHz - 6GHz)
S1132-08	Directional Antenna (600MHz - 8GHz)

Note: Information will conduct the necessary updates, the contents of this document are subject to change without notice