

# S1131 RF Signal Generator

(Frequency Range: 9kHz - 3GHz)

## Key Features

- Frequency range: 9kHz - 3GHz
- Built-in internal and external modulation source
- Small size, light weight
- Available in abundant analog modulation and digital modulation functions
- List sweep and step sweep
- SCPI easy remote control

## Typical Applications

- Education, Research
- RF component manufacture



S1131 is a high-performance RF signal generator. It provides multiple functions such as CW signal generate, analog modulation, pulse modulation, frequency/amplitude sweep etc. S1131 also provides flexible interfaces and support SCPI for easy remote control. S1131 is perfect suitable for education, RF component manufacture and maintenance.

## Technical Specifications

Frequency	
Frequency Range	9kHz - 3GHz
Frequency Resolution	1Hz
Aging Rate (Typ.)	1ppm/year
Sweep Modes	Step Sweep / List Sweep
Sweep Type	Single / Continue
Sweep Point	Step Sweep: 2 - 65535, List Sweep: 2 - 1023
Trigger Mode	Free, External

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Amplitude	
Output Power Range	-120dBm to 10dBm
Output Power Resolution	0.01dB
Power Accuracy	±0.1dB (typ.)
VSWR	<1.8

Spectral Purity Specifications			
SSB Phase Noise (dBc/Hz)	Carrier Frequency Offset	10kHz	100kHz
	f = 300MHz	-105dBc/Hz	-115dBc/Hz
	f = 1GHz	-93dBc/Hz	-105dBc/Hz
Harmonic	<-30dBc (typ.)		
Non-Harmonic	<-50dBc (typ.)		

Modulation Specification				
Internal Modulation Signal Generator	Modulation Type	amplitude modulation, frequency modulation, phase modulation		
	Waveform	Sine, square, triangle, sawtooth		
	Frequency Range	Sine wave	0.1Hz - 500kHz	
		Square	0.1Hz - 20kHz	
		triangle, sawtooth	0.1Hz - 100kHz	
Frequency Resolution		0.01Hz		
Pulse Modulation	Pulse modulation rise/fall time	100ns (typ.)		
	Pulse Cycle Range	200ns - 160s		
	Resolution	100ns		
	Pulse width	100ns - 85s		
Amplitude Modulation	Modulation Depth	0 - 100%		
	Modulation Rate	20Hz - 1MHz		

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Phase Modulation	Modulation Phase	0° - 360°
	Modulation Rate	20Hz - 1MHz
Frequency Modulation	Frequency Offset	5MHz
	Modulation rate	20Hz - 1MHz

## General Information

RF Output Interface	N type 50ohm
LF Output	BNC 50ohm
External Ref Input	BNC 50ohm
External Pulse Input	BNC 50ohm
External Trigger Input	BNC 50ohm
10MHz Ref Input	BNC 50ohm
USB	USB 2.0
LAN	10/100 Base T
Dimension (mm)	340× 230×110
Weight	Approx. 5Kg
Operating Temp.	0~ +45°C
Power Supply	110 - 240V 50/60Hz

## Standard Package

Item	Name	Qty
1	RF Signal Generator	1 Set
2	User Guide (Soft copy)	1 PC
3	Power Cord	1 PC



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

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