(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)



Key Features

- Wide frequency coverage
- High output power
- Excellent phase noise
- Extremely short frequency switching time
- High performance pulse modulation
- Built-in multi-function function generator
- Small size and light weight
- High-sensitivity LED touch screen

Overview

Based on innovative technologies, Saluki S1435 series signal generator achieves balance in terms of performance, economy and volumetric weight. It also has excellent spectral purity, with a single side band (SSB) phase noise of -136dBc/Hz (when the carrier is 1GHz and the frequency offset is 10kHz) or -116dBc/Hz (when the carrier is 10GHz and the frequency offset is 10kHz). It provides a high power output and a large dynamic range, with the maximum output power up to 20dBm@20GHz and an output power dynamic range greater than 150dB. It responds fast and switches to another frequency in only 1ms, which shortens the test time and improves



(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)

test efficiency, meeting the needs of massive data testing; in addition, it also has excellent analog modulation and pulse modulation functions. By adopting advanced frequency synthesis and RF channel signal processing technologies, it can achieve high performance while reducing the cost. Besides, it is equipped with a 7-inch high-sensitivity LED touch screen, and supports operation by touch screen, panel buttons, rotary knobs, external mouse and keyboard, etc., which fully upgrades the users' operation experience. It adopts portable 3U chassis structure and is featured by small size and light weight, and thus is easy to carry. The S1435 series signal generator can meet both the test requirements for high performance in the R&D phase and the test requirements for high efficiency in the production phase.

Advantage Characteristics

1. Wide frequency coverage

The S1435A/B/C/D/F series signal generator provides a frequency range of 9kHz - 3GHz/6GHz/12GHz/20GHz/40GHz. Its lowest frequency can be as low as 9kHz and its highest frequency can be as high as 40GHz, which can meet the needs of wide frequency band testing.

2. High output power

When the H08 high-power output option is selected, the measured value of the full-band output power of the S1435A/B/C/D series signal generator can be above 20dBm and the full-band output power of the S1435F series signal generator can be above 17dBm. In the test where high-power excitation signals are required, the S1435 series signal generator can be used to obtain the required test signal without an external amplifier.



(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)

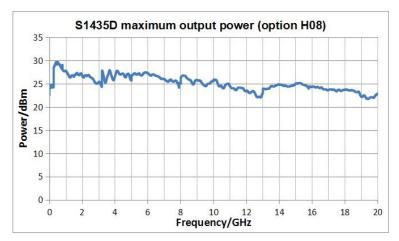


Fig.1 S1435D+H08 maximum output power

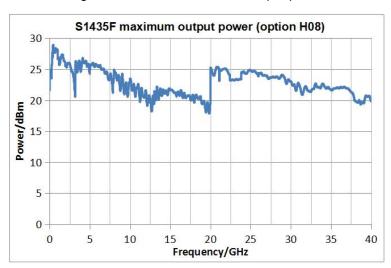


Fig.2 S1435F+H08 maximum output power

3. Excellent phase noise

The S1435 series signal generator provides two steps of phase noise for users. The standard phase noise is measured at -101dBc/Hz (10GHz@10kHz), and the phase noise can be as low as -116dBc/Hz (10GHz@10kHz) when the low phase noise option is selected. Users can select the phase noise as required to achieve the optimal cost performance.



(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)

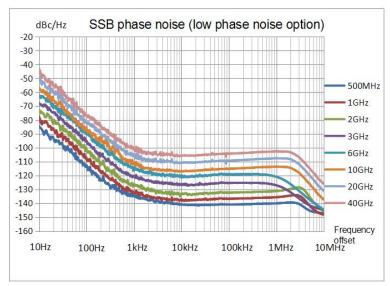


Fig.3 SSB phase noise

4. Extremely short frequency switching time

The S1435 series signal generator can realize fast frequency switching in the full frequency band, and the measured frequency switching time is 0.67ms, which can meet the test requirements for high speed.

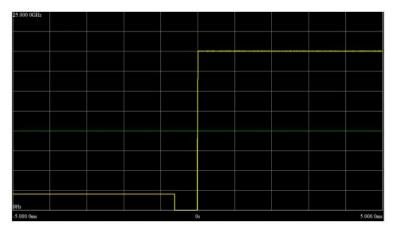


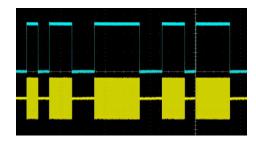
Fig.4 2GHz to 20GHz frequency switching time



(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)

5. High performance pulse modulation

The pulse switch ratio is greater than 80dB, and the rise and fall time is shorter than 10ns. When the narrow pulse option H04 with a minimum pulse width of 20ns, a pulse width range of 20ns-42s-10ns and a step of 10ns is selected, it supports various triggering modes such as gating and external triggering. It's also equipped with the pulse string required in radar test.



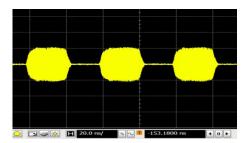
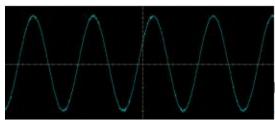


Fig.5 Pulse string is 5 and pulse width is 20ns

6. Multi-function function generator

The multi-function function generator consists of seven waveform generators for generating AM/FM/ΦM modulated signals and low-frequency output signals. Two waveform generators can generate a dual-tone modulated signal by internal addition and are used for AM/FM/ΦM. The seven waveform generators include two standard function generators, one double-function generator, one scan function generator, two noise generators, and one DC generator. The DC generator generates DC levels, which can only be used for low frequency output. For the waveform generator, its sine wave frequency range is 0.1Hz - 10MHz, and its frequency range of triangle wave, square wave, sawtooth wave and pulse is 0.1Hz - 1MHz, and the frequency resolution is 0.1Hz.



11/1//

Sine wave

Sawtooth wave

No.367, Fuxing N. Rd.,105 Taipei,Taiwan Tel: +886.2.2175 2930 sales@salukitec.com www.salukitec.com



(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)

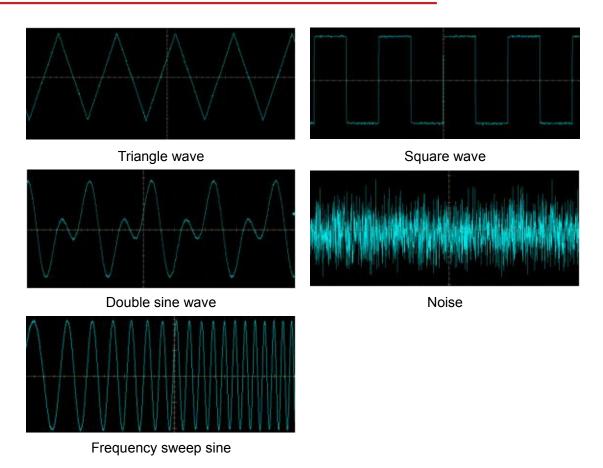


Fig.6 Seven waveforms

7. Small size and light weight

By adopting the portable 3U-high chassis design, the S1435ABCDF series signal generator has its weight and volume greatly reduced (compared to bench instruments). The heaviest model of this series is 10.9kg, and the lightest model is 7.4kg.

8. High-sensitivity LED touch screen

The 7-inch wide LED display which supports a resolution of 800×480 pixels clearly shows the instrument status information. The combination of the capacitive screen



(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)

and the tailored window interface enables the S1435ABCDF series signal generator to respond sensitively and accurately to users' touch operations. In addition to the touch screen, the user can also operate the instrument by the panel buttons, the rotary knobs (with the Enter function), and the external keyboard and mouse conveniently and quickly.

Typical Applications

1. General test

The S1435 series signal generator provides complete functions and a frequency range of 9kHz - 40GHz. It provides AM, FM, ΦM, and PM analog modulation functions and supports step scan and list scan. Also, it has excellent performance. By adopting a design which realizes the balance between performance, economy and volumetric weight, it supports free configuration of various options, which makes it widely available. In respect of cost, it can be used for teaching; in respect of performance, it can be used in laboratory tests.

2. Defense test

The S1435 series signal generator supports high-performance pulse modulation, with a pulse-to-modulation switch ratio greater than 80dB, the rise and fall time less than 10ns, and the minimum pulse width of 20ns. It supports various pulse patterns such as pri stagger, prf jittering and pulse string, which is suitable for radar system testing. It has excellent phase noise performance and is available for receiver testing. It has a small size and can be carried along for field testing.

3. Production line test

The S1435 series signal generator takes only 1ms to switch to another frequency. It provides a high test speed, shortens the test time, and improves the test efficiency, thus meeting the requirements of massive data test. It provides a high power output and needs no external power amplifier, thus saving the space and cost. It supports multiple control interfaces such as USB, LAN and GPIB, which facilitates the formation of an automated test system and is suitable for production line test.



(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)

Technical Specifications

Frequency Features				
		Frequency	N (number of	
			fundamental and	
			harmonic waves)	
		9kHz≤f<250MHz	1/8	
	S1435A: 9kHz - 3GHz	250MHz≤f≤375MHz	1/16	
	S1435B: 9kHz - 6GHz	375MHz <f≤750mhz< td=""><td>1/8</td></f≤750mhz<>	1/8	
Frequency Range	S1435C: 9kHz - 12GHz S1435D: 9kHz - 20GHz	750MHz <f≤1.5ghz< td=""><td>1/4</td></f≤1.5ghz<>	1/4	
	S1435F: 9kHz - 40GHz	1.5GHz <f≤3ghz< td=""><td>1/2</td></f≤3ghz<>	1/2	
	0.1001.011.12	3GHz <f≤6ghz< td=""><td>1</td></f≤6ghz<>	1	
		6GHz <f≤12ghz< td=""><td>2</td></f≤12ghz<>	2	
		12GHz <f≤24ghz< td=""><td>4</td></f≤24ghz<>	4	
		24GHz <f≤40ghz< td=""><td>8</td></f≤40ghz<>	8	
Frequency	0.001Hz			
Resolution				
Frequency Switching Time	≤1ms (typical value ²)			
	Standard: ±5×10 ⁻⁷ /year (after continuous switch-on for 30 days)			
Time Base Aging Rate (Typ.)	High stability time base option H10: $\pm 5 \times 10^{-8}$ /year (after continuous switch-on for 30 days), $\pm 5 \times 10^{-10}$ /day(after continuous switch-on for 30 days)			
Reference Output	Frequency	10MHz		
Reference Output	Power	>+4dBm, to 50Ω load		
Frequency 1MHz - 50MHz, ste		1Hz, step 1Hz		
Reference Input	Power	Power 0dBm to +7dBm, impedance 50Ω		
Scanning Features	S			
Scanning Mode	Step scan, list scan			
Scan Dwell Time	100µs - 100s			



Power Features						
Minimum Davier	Standard -15dBm (can be set -20dBm)		Option H01			
Minimum Power			-110dBm (can be set -135dBm)			
	Frequency range	Standard	High power output (option H08)			
		S143	A/B			
	9kHz≤f≤3GHz	18dBm	22dBm			
	3GHz <f≤5ghz< td=""><td>16dBm</td><td colspan="2">20dBm</td><td></td></f≤5ghz<>	16dBm	20dBm			
	5GHz <f≤6ghz< td=""><td>15dBm</td><td></td><td>18dE</td><td>3m</td><td></td></f≤6ghz<>	15dBm		18dE	3m	
Maximum Power		S1435	5C/D			
(25±10°C)	9kHz≤f≤3GHz	16dBm		21dBm		
	3GHz <f≤20ghz< td=""><td>15dBm</td><td colspan="3" rowspan="2">20dBm I35F</td><td></td></f≤20ghz<>	15dBm	20dBm I35F			
		S143				
	9kHz≤f≤3GHz	14dBm		20dBm		
	3GHz <f≤17ghz< td=""><td colspan="2">13dBm</td><td>17dE</td><td colspan="2">17dBm</td></f≤17ghz<>	13dBm		17dE	17dBm	
	17GHz <f≤40ghz< td=""><td>11dBm</td><td></td><td>15dE</td><td colspan="2">15dBm</td></f≤40ghz<>	11dBm		15dE	15dBm	
		Stand	ndard			
	Frequency Power (dBm)	10 - max. power	-10 to 10 -15 to -10		15 to -10	
	9kHz≤f≤2GHz	±0.8dB	±0.6dB ±1.5dB		±1.5dB	
	2GHz <f≤20ghz< td=""><td>±0.9dB</td><td>±0.7</td><td>dB</td><td></td><td>±1.5dB</td></f≤20ghz<>	±0.9dB	±0.7	dB		±1.5dB
Power Accuracy	20GHz <f≤40ghz< td=""><td>±0.9dB</td><td colspan="2">±0.8dB</td><td>±1.8dB</td></f≤40ghz<>	±0.9dB	±0.8dB		±1.8dB	
(25±10°C)	H01A/B programmable step attenuator option					
	Frequency Power (dBm)	10 - max. power	-10 to 10	-70 to -	10	-90 to -70
	9kHz≤f≤2GHz	±0.8dB	±0.6dB	±0.7d	В	±1.4dB
	2GHz <f≤20ghz< td=""><td>±0.9dB</td><td>±0.7dB</td><td>±0.7d</td><td>В</td><td>±1.6dB</td></f≤20ghz<>	±0.9dB	±0.7dB	±0.7d	В	±1.6dB
	20GHz <f≤40ghz< td=""><td>±0.9dB</td><td colspan="2">B ±0.8dB ±1.</td><td>В</td><td>±2.0dB</td></f≤40ghz<>	±0.9dB	B ±0.8dB ±1.		В	±2.0dB
Power Resolution	0.01dB					



Output Impedance	50Ω (rated value³)			
Source Standing	9kHz≤f≤3GHz		•	<1.7
Wave Ratio,	3GHz <f≤13ghz< td=""><td></td><td>•</td><td><1.6</td></f≤13ghz<>		•	<1.6
VSWR (Internal Fixed Amplitude)	13GHz <f≤20ghz< td=""><td></td><td>•</td><td><1.8</td></f≤20ghz<>		•	<1.8
(Typ.)	20GHz <f≤40ghz< td=""><td></td><td colspan="2"><1.6</td></f≤40ghz<>		<1.6	
Maximum Reverse Power	0.5W (0V DC) (rated value)			
Spectral Purity ⁴				
	9kHz≤f≤10MHz		<-2	23dBc
	10MHz <f≤2ghz< td=""><td></td><td><-:</td><td>30dBc</td></f≤2ghz<>		<-:	30dBc
Harmonic Wave (at +10dBm)	2GHz <f≤6ghz (s1435b<="" td=""><td>5)</td><td colspan="2"><-30dBc</td></f≤6ghz>	5)	<-30dBc	
(80 10 8 2 1 3 4)	2GHz <f≤20ghz< td=""><td></td><td colspan="2"><-55dBc</td></f≤20ghz<>		<-55dBc	
	20GHz <f≤40ghz< td=""><td></td><td colspan="2"><-50dBc (typ.)</td></f≤40ghz<>		<-50dBc (typ.)	
	9kHz≤f≤6GHz		None	
Subharmonic Wave	Subharmonic 6GHz <f≤12ghz< td=""><td colspan="2"><-60dBc</td></f≤12ghz<>		<-60dBc	
(at +10dBm)	12GHz <f≤24ghz< th=""><th colspan="2"><-55dBc</th><th>55dBc</th></f≤24ghz<>	<-55dBc		55dBc
	24GHz <f≤40ghz< td=""><td colspan="2"><-50dBc</td><td>50dBc</td></f≤40ghz<>	<-50dBc		50dBc
	Frequency	requency Standard		andard
	9kHz≤f≤250MHz	<-54dBc		54dBc
Non-Harmonic	250MHz <f≤3ghz <-62dbc<="" td=""><td colspan="2"><-62dBc</td></f≤3ghz>		<-62dBc	
Wave (at 0dBm, 10kHz	3GHz <f≤6ghz< td=""><td></td><td colspan="2"><-56dBc</td></f≤6ghz<>		<-56dBc	
Frequency Offset)	6GHz <f≤12ghz< td=""><td colspan="2"><-50dBc</td></f≤12ghz<>		<-50dBc	
	12GHz <f≤24ghz< td=""><td colspan="2"><-44dBc</td><td>14dBc</td></f≤24ghz<>	<-44dBc		14dBc
	24GHz <f≤40ghz< td=""><td></td><td colspan="2"><-38dBc</td></f≤40ghz<>		<-38dBc	
SSB Phase Noise		Standard		
(dBc/Hz at	Frequency		100Hz	10kHz
+10dBm)	100MHz		-83	-115



	1					
	250 MHz		-93		-127	
	500MHz		-89		-121	
	1 GHz			-83	-115	
	2 GHz		-77		-109	
	3 GHz		-74		-105	
	4 GHz		-71		-103	
	6 GHz		-68		-99	
	10 GHz		-63		-95	
	20 GHz		-57		-89	
	40 GHz		-51		-83	
SSB Phase Noise	Low phase noise (option			H06)		
(dBc/Hz at	Frequency	100Hz		1kHz	10kHz	100kHz
+10dBm)	100MHz	-83		-112	-131	-131
	250 MHz		-93	-123	-139	-139
	500MHz	-89		-119	-135	-135
	1 GHz		-83	-113	-132	-132
	2 GHz	-77		-107	-126	-126
	3GHz	-74		-104	-121	-121
	4 GHz		-71	-101	-120	-120
	6 GHz		-68	-98	-115	-115
	10 GHz		-63	-93	-113	-113
	20 GHz	-57		-87	-107	-107
	40 GHz		-51	-81	-101	-101
Modulation Feature	es					
Frequency Modulation	Maximum frequency offset: N × 16MHz (N is the number of fundamental harmonic wave) Accuracy (1kHz modulation rate, frequency offset: N × 500kHz): ± (2% set frequency offset + 20Hz)			undamental		
(Option H02)				set: N × 500kH	z): ± (2% ×	



	Modulation rate (3dB bandwidth, frequency offset: N × 500kHz): DC - 7MHz			
	Distortion (1kHz rate, frequency offset: N × 500kHz): <0.4%			
	Maximum phase offset: N × 16rad (N is the number of fundamental harmonic wave)			
Phase Modulation (Option H02)	Accuracy (1kHz modulation rate, frequency offset: N × 500kHz): \pm (2% × set phase offset + 0.01rad)			
	Modulation rate (3dB bandwidth, phase offset: N × 8rad): DC - 1MHz			
	Distortion (1kHz modulation rate, ph	nase offset: N × 8rad): <0.4%		
	Maximum depth: >90%			
Amplitude	Modulation rate: (1kHz modulation rate, 30% modulation depth): ± (4% × set depth +1%)			
Modulation (Option H02)	Modulation rate (bandwidth: 3dB; modulation depth: 30%; frequency test points: 1GHz, 5GHz, 20GHz, 40GHz): DC - 100kHz			
	Distortion: (1kHz modulation rate, linear mode, total harmonic distortion, 30% modulation depth): <2%			
	Switching ratio	>80dB		
	Rise and fall time	<10ns		
Pulse Modulation ⁵ (Option H03)	Minimum pulse of internal fixed amplitude	1µs		
	Minimum pulse of non-fixed amplitude	100ns		
	Switching ratio	>80dB		
Narrow Pulse	Rise and fall time	<10ns		
Modulation ⁵ (Option H04)	Minimum pulse of internal fixed amplitude	1µs		
	Minimum pulse of non-fixed amplitude	20ns		
Internal Analog	It provides three independent signals for frequency/phase modulation, amplitude modulation and low frequency output signals			
Modulation Signal Generator (Option H02)	Waveform: sine wave, square wave, triangle wave, sawtooth wave Frequency range: sine wave 0.1Hz - 10MHz Square wave, triangle wave, sawtooth wave 0.1Hz - 1MHz			



Function sawtooth wave, pulse, phase offset and amplitude ratio of aud relative to audio 1;	ad 		
Pulse width: 20ns - (42s-10ns) (rated value) Pulse period: 40ns - 42s (rated value) Resolution: 10ns The Multi-function generator consists of 7 waveform generators. generator can be set separately or five generators can be simultaneously by using the AM, FM/ΦM and the composite modul features in the low-frequency output. Waveform: Function generator 1: sine wave, triangle wave, square wave, saw wave, pulse Function generator 2: sine wave, triangle wave, square wave, saw wave, pulse Multi-Function Function Generator (Option Generator (Option (Opt	ad		
Pulse period: 40ns - 42s (rated value) Resolution: 10ns The Multi-function generator consists of 7 waveform generators. generator can be set separately or five generators can be simultaneously by using the AM, FM/ΦM and the composite modul features in the low-frequency output. Waveform: Function generator 1: sine wave, triangle wave, square wave, saw wave, pulse Function generator 2: sine wave, triangle wave, square wave, saw wave, pulse Dual function generator: sine wave, triangle wave, square wave, saw wave, pulse, phase offset and amplitude ratio of audiculative to audio 1;			
(Option H03) Resolution: 10ns The Multi-function generator consists of 7 waveform generators. generator can be set separately or five generators can be simultaneously by using the AM, FM/ΦM and the composite modul features in the low-frequency output. Waveform: Function generator 1: sine wave, triangle wave, square wave, saw wave, pulse Function generator 2: sine wave, triangle wave, square wave, saw wave, pulse Dual function generator: sine wave, triangle wave, square wave, saw wave, pulse Dual function generator: sine wave, triangle wave, square wave, saw wave, pulse Dual function generator: sine wave, triangle wave, square wave, saw wave, pulse pulse period: 40ns 42s (tated valde) The Multi-function generators consists of 7 waveform generators. Function generator 1: sine wave, triangle wave, square wave, saw wave, pulse Function generator 2: sine wave, triangle wave, square wave, pulse pulse period: 40ns 42s (tated valde) The Multi-function generator consists of 7 waveform generators. Function generator 1: sine wave, triangle wave, square wave, saw wave, pulse Function generator 2: sine wave, triangle wave, square wave, saw wave, pulse Dual function generator: sine wave, triangle wave, square wave, saw wave, pulse sawtooth wave, pulse, phase offset and amplitude ratio of audition generator (Option)			
The Multi-function generator consists of 7 waveform generators. generator can be set separately or five generators can be simultaneously by using the AM, FM/ΦM and the composite modul features in the low-frequency output. Waveform: Function generator 1: sine wave, triangle wave, square wave, saw wave, pulse Function generator 2: sine wave, triangle wave, square wave, saw wave, pulse Multi-Function Function Generator (Option Resolution: 1018 The Multi-function generators on site of a wave of site of a wave of saw wave, pulse of sawtooth wave, pulse, phase of set and amplitude ratio of audit relative to audio 1;			
generator can be set separately or five generators can be simultaneously by using the AM, FM/ΦM and the composite modul features in the low-frequency output. Waveform: Function generator 1: sine wave, triangle wave, square wave, saw wave, pulse Function generator 2: sine wave, triangle wave, square wave, saw wave, pulse Dual function generator: sine wave, triangle wave, square wave, saw wave, pulse Dual function generator: sine wave, triangle wave, square wave, saw wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and am			
Function generator 1: sine wave, triangle wave, square wave, saw wave, pulse Function generator 2: sine wave, triangle wave, square wave, saw wave, pulse Multi-Function Function Generator (Option Generator (Option Function generator: sine wave, triangle wave, square wave, saw wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, phase offset and amplitude ratio of audientical sawtooth wave, pulse, pha	set		
Multi-Function Function Generator (Option Wave, pulse Dual function generator: sine wave, triangle wave, square wave, square wave, pulse, phase offset and amplitude ratio of audio 1;	ooth		
Function sawtooth wave, pulse, phase offset and amplitude ratio of audient relative to audio 1;	ooth		
H05) Coop function generates size ways triangle ways	Dual function generator: sine wave, triangle wave, square wave, sawtooth wave, pulse, phase offset and amplitude ratio of audio 2 relative to audio 1;		
Scan function generator: sine wave, triangle wave, square v sawtooth wave;	ave,		
Noise generator 1: uniform, Gaussian;			
Noise generator 2: uniform, Gaussian;	Noise generator 2: uniform, Gaussian;		
DC: LF output only;			
Frequency parameters:			
Sine wave: 0.1Hz to 10MHz;			
Triangle wave, square wave, sawtooth wave, pulse: 0.1Hz to 1MHz;			
Resolution: 0.1Hz;			
General Features			
S1435A/B/C: N type (negative), impedance 50Ω			
RF Output Port S1435D: 3.5mm (positive), N type (negative) (option H91), imped 50Ω	S1435D: 3.5mm (positive), N type (negative) (option H91), impedance 50Ω		
S1435F: 2.4mm (positive), impedance 50Ω	S1435F: 2.4mm (positive), impedance 50Ω		
Max.Dimensions 330mm × 147mm × 397mm (excluding the handle)			
(W × H × D) 420mm × 147mm × 445mm (including the handle)	, · · · · · · · · · · · · · · · · · · ·		
Weight <12kg (the weight varies with the model and option configuration)			



(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)

Power Supply	100 - 120VAC, 50 - 60Hz; or 200 - 240VAC, 50 - 60Hz (self-adaptive)
Power Consumption	Less than 300W
Temperature Range	Operating temperature: 0°C to +50°C; storage temperature: -40°C to +70°C

Note:

- 1. The S1435 series signal generator can be stored at ambient temperature for 2 hours. After preheating for 30 minutes, the attenuator is automatically coupled (or ALC power is greater than -5dBm) to meet the performance of each indicator within a given working range.
- 2. The typical value is a supplementary feature given based on the stereotype value, which is only for user reference, and will not be assessed.
- 3. The rated value refers to the expected performance, or describes the product performance that is useful in the product but is not included in the product warranty.
- 4. The spectral purity indicates that the point frequency has no modulation mode.
- 5. The technical specifications of pulse modulation and narrow pulse modulation are applicable to frequencies above 50MHz.

Standard Package

Item	Name	Description	
		S1435A: 9kHz - 3GHz	
		S1435B: 9kHz - 6GHz	
1	S1435 signal generator	S1435C: 9kHz - 12GHz	
		S1435D: 9kHz - 20GHz	
		S1435F: 9kHz - 40GHz	
2	Power cord assembly	Standard three-core power cord	
3	User manual	\	
4	Programming manual	\	
5	Product certificate	\	



(Frequency Range: 9kHz - 3GHz/ 6GHz/ 12GHz/ 20GHz/ 40GHz)

Options

Part No.	Name	Description
S1435-H01-A		
S1435-H01-C	115dB programmable step attenuator	Expand the output power dynamic range.
S1435-H01-F		
S1435-H02	Analog modulation	Increase analog modulation functions, including AM, FM, ΦM, and low frequency output.
S1435-H03	Pulse modulation	Increase the pulse modulation function with a minimum pulse width of 100ns.
S1435-H04	Narrow pulse modulation	Increase the pulse modulation function with a minimum pulse width of 20ns.
S1435-H05	Multi-function function generator	Add a richer analog modulation signal format. (Note: The H05 option is available after the H02 analog modulation option is selected).
S1435-H06-A	Low phase noise	Optimize phase noise, 10GHz@10kHz: -113dBc/Hz.
S1435-H06-C		
S1435-H08	High power output	Increase the maximum output power.
S1435-H10	High stability time base option	Internal time base aging rate.
S1435-H50	Calibration certificate	Instrument calibration.
S1435-H91	N type connector for RF output	N type connector for RF output, applicable to S1435D.
S1435-H92	RF output moved to the rear panel	RF output on rear panel.
S1435-H93	Portable handle	3U handle.
S1435-H94	Rack mount kit	Mounting kit for the upper cabinet.
S1435-H95	Aluminum alloy transport case	High-strength lightweight aluminum alloy transport case with handle and universal roller for easy transportation.

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

