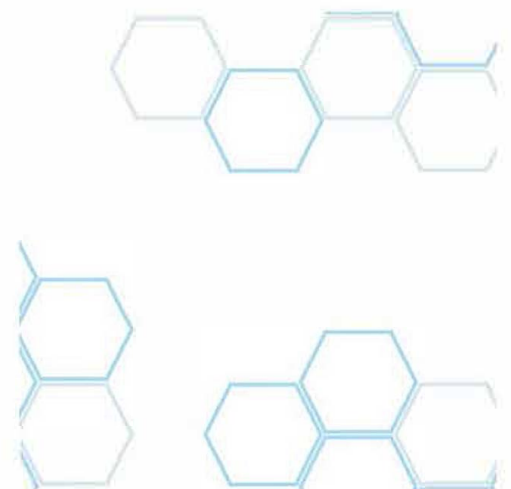


SALUKI TECHNOLOGY INC. Product Brochure



About us

Overview:

Saluki Technology Inc. develops innovative test and measurement solutions for next generation communication equipment and networks.

In 2014, test and measurement industry leading experts founded Saluki Technology Inc. Today, Saluki is 100% focused on researching, designing and manufacturing RF & Microwave test equipment and solutions. Products range from Signal Generators, Signal Analyzers / Spectrum Analyzers, Network Analyzers, RF & Microwave Comprehensive Test to Optical Test.

Saluki has a dedicated technical department, customer support team and experienced account managers available to assist your needs at anytime.

Our goal is to always provide our customers with the best quality products, highest quality of service, and most innovative technology and solutions.

Our Vision:

Saluki strive to achieve best in class, and make the test world easier and more cost efficient.

Brand Name:

Saluki takes its name from the most ancient breed of hunting dogs. Loyal, swift and definite accurate, we epitomize what a great test and measurement equipment should be.

Support

- High end test solutions with low cost
- Perfect turn-key solutions with a variety of products
- 36 month warranty
- Calibration & Repair locally
- Good inventory of spare parts
- Professional document support
- Technical response within 24 hours

Saluki Technology

2016/2017 Product Catalog

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S1101A/B RF Signal Generator



The S1101A /S1101B is a RF signal generator covering a frequency range from 250 kHz to 6 GHz / 3 GHz. With extremely low phase noise of output signal, accuracy frequency resolution, wide output dynamic range, and multiple built-in functions, it is widely used for R&D, manufacturing, education, and service maintenance.

Key Features

- Frequency range: 250kHz - 6GHz / 3GHz.
- Extremely low phase noise.
- Power output from -135dBm to +7dBm.
- Analog modulation and digital modulation signal.
- List sweep and step sweep.

Typical Applications

- Consumer electronics development
- Manufacturing
- Service maintenance
- RF education

Frequency Range	
S1101A	250kHz - 6GHz
S1101B	250kHz - 3GHz
N Factor	
250 kHz ≤ f ≤ 250 MHz	1
250 MHz < f ≤ 500 MHz	0.5
500 MHz < f ≤ 1 GHz	1
1 GHz < f ≤ 2 GHz	2
2 GHz < f ≤ 3.2 GHz	4
3.2 GHz < f ≤ 6 GHz	8
Frequency Resolution	
0.01Hz	
Harmonic	
< -30 dBc	
Sub-harmonic	
None	
Non-harmonic	
< -62 dBc	

Sweep Mode	
Step Sweep, List Sweep	
SSB Phase Noise	
CF=1GHz, 100Hz Offset	<-91dBc/Hz
CF=1GHz, 1kHz Offset	<-115dBc/Hz
CF=1GHz, 10kHz Offset	<-127dBc/Hz
CF=1GHz, 100kHz Offset	<-127dBc/Hz
Output Power Range	
-20dBm - +7dBm	
Residual FM (Typical Value)	
< N×1Hz	
General	
Dimension (W×H×L)	482mm×152mm×582mm
Max. Weight	Approx. 23kg
Power Consumption	300W (Max)
Power Supply Mode	220V AC

S1103 Series Synthesized Signal Generators



S1103 is a series of microwave synthesized signal generators with top-level performance. Integrated with a dual-channel internal modulation signal generator and pulse generator, S1103 can also provide AM, FM, ØM and pulse modulation.

S1103 is designed for comprehensive performance evaluation of electronic systems. Meanwhile, it can also be used as a local oscillator for transmitters and receivers. S1103 is widely used in aviation, spaceflight, radar, communication, navigation equipment etc.

Key Features

- Wide frequency range.
- High quality , Low phase noise signal.
- High dynamic range, precise power output
- Compatible with SAV82406 series frequency extender to extend output frequency up to 500GHz

Typical Applications

- Comprehensive Performance Evaluation on Electronic System
- Test on High-performance Receiver
- Local Oscillator Substitution

Specifications				
	S1103A	S1103B	S1103C	S1103D
Frequency Range	250kHz - 20GHz	250kHz - 40GHz	250kHz - 50GHz	250kHz - 67GHz
Frequency Resolution	0.001Hz			
Output Power	-20dBm -13dBm	-20dBm -10dBm	-20dBm - 6dBm	-20dBm - 6dBm
Output Power with Programmable step attenuator (Optional)	-120dBm -11dBm	-120dBm - 8dBm	-90dBm - 3dBm	-90dBm - 3dBm
Single Sideband Phase Noise @1GHz(10kHz offset)	-130dBc/Hz	-130dBc/Hz	-130dBc/Hz	-130dBc/Hz
General				
Dimension	Standard: 426×133×510mm (without handles, feed pad and feed)			
	Max. 482×152×582mm			
Weight	Approx. 20Kg			
Operating Temp.	0- +40°C			
Max. Power	300W			
Power Supply	220V AC			

S1131 RF Signal Generators



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.

Key Features

- Good specifications.
- Multiple analog modulation functions.
- Small size, low weight.
- Friendly UI, easy to use

Typical Applications

- Education
- RF component manufacture, maintenance

Specifications			
Frequency Range	100kHz - 3GHz		
Sweep Modes	Step Sweep / List Sweep		
Output Power Range	-120dBm - 10dBm		
Output Power Resolution	0.01dB		
Power Accuracy	+10dBm to -80dBm: $\leq \pm 0.5\text{dB}$ -80dBm to -120dBm: $\leq \pm 1\text{dB}$		
VSWR	< 1.8		
SSB Phase Noise (dBc/Hz)	Carrier Frequency Offset	10kHz	100kHz
	f = 300MHz	-100dBc/Hz	-115dBc/Hz
	f = 1GHz	-90dBc/Hz	-105dBc/Hz
Harmonic	$< -30\text{dBc}$ (typ.)		
Non-Harmonic	$< -50\text{dBc}$ (typ.)		
Analog Modulation Functions	AM,FM,PM,Pulse		
General			
RF Output Interface	N type 50ohm		
Telecommunication Interfaces	USB, LAN		
Dimension	340× 230×110		
Weight	$< 5\text{Kg}$		
Operating Temp.	0 - +45°C		
Power Supply	110 - 240V 50/60Hz AC		

SAV101 Modular Signal Generator



SAV101 is a modular signal generator with good performance. It provides comprehensive modulation solutions include pulse modulation AM/FM/ΦM analog modulation. SAV101 also provides LAN and USB interfaces for data communication and remote control. SAV101 supports SCPI. SAV101 also features a small size and light weight. It is easy to operate and can output stable, precise and pure signals.

Key Features

- Good specifications
- Multiple analog modulation functions.
- Small size, low weight
- Modular product

Typical Applications

- RF components manufacture, maintenance
- Test system integration

Specifications			
Frequency Range	100kHz - 3GHz		
Sweep Modes	Step Sweep / List Sweep		
Output Power Range	-120dBm - 10dBm		
Output Power Resolution	0.01dB		
Power Accuracy	+10dBm to -80dBm: $\leq \pm 0.5\text{dB}$ -80dBm to -120dBm: $\leq \pm 1\text{dB}$		
VSWR	< 1.8		
SSB Phase Noise (dBc/Hz)	Carrier Frequency Offset	10kHz	100kHz
	f = 300MHz	-100dBc/Hz	-115dBc/Hz
	f = 1GHz	-90dBc/Hz	-105dBc/Hz
Harmonic	$< -30\text{dBc (typ.)}$		
Non-Harmonic	$< -50\text{dBc (typ.)}$		
Analog Modulation Functions	AM,FM,PM,Pulse		
General			
RF Output Interface	SMA 50ohm		
Telecommunication Interfaces	USB, LAN		
Dimension (mm)	145× 95×28		
Weight	$< 700\text{g}$		
Operating Temp.	0 - +45°C		
Power Supply	12VDC		

S3331 Handheld Spectrum Analyzer



S3331 handheld spectrum analyzer is designed for field use. It has a low weight, compact structure and a good performance. S3331 can be operated in field for 4 hours with battery power supply. It also provides telecommunication ports such as USB and LAN for remote data collection and remote control.

Key Features

- Frequency range from 9kHz - 7.5GHz
- Sensitive, best DANL <-160dBm
- Low weight, small size, large bright screen, suitable for field use
- Standard LAN and USB interface, support SCPI
- Standard AM,FM demodulation functions. Optional tracking source function

Typical Applications

- On site test, maintenance
- Spectrum Monitor

		S3331A	S3331B
Specification			
Frequency range		9kHz - 3.6GHz	9kHz - 7.5GHz
Resolution		1Hz	1Hz
RBW Range		1Hz - 50kHz, 1MHz, 3MHz	1Hz - 50kHz, 1MHz, 3MHz
VBW Range		10Hz - 3MHz	10Hz - 3MHz
DANL (CF = 1GHz, RBW=1Hz)		<-135dBm Preamp off <-155dBm Preamp on	<-133dBm Preamp off <-148dBm Preamp on
SSB Phase Noise (CF=500MHz, RBW=1kHz)	Carrier offset 30kHz	-90dBc/Hz	-80dBc/Hz
	Carrier offset 100kHz	-100dBc/Hz	-90dBc/Hz
	Carrier offset 1MHz	-110dBc/Hz	-110dBc/Hz
Maximum safe input level	Average continuous power	+27dBm	+23dBm
	DC voltage	50Vdc maximum	50Vdc maximum
Input attenuator range		0 - 39dB, Steps of 3 dB	0 - 30dB, Steps of 1 dB
TOI	>30MHz	+13dBm	+15dBm
SHI		+30dBm	+40dBm
Input related spurious		<-60dBc	<-60dBc
Inherent residual response		<-85dBm	<-85dBm
Test Port		Type -N female (50Ω)	
Communication Port		USB B type, LAN	
General data			
Display		6.5 inch TFT LCD	6.5 inch TFT LCD
		Resolution 600*480	Resolution 600*480
Dimensions		288(H)×182(W)×142(D)mm	288(H)×182(W)×142(D)mm
Weight		2.8kg (Including battery)	3kg (Including battery)
Battery Life		4 hours (typ.)	3.5 hours (typ.)

S3301 Handheld Microwave Spectrum Analyzer



S3301 is an easy-use Handheld Microwave Spectrum Analyzer. With a good performance, S3301 can meet the needs of measurements from short wave to Ku band wave .

S3301 Handheld Microwave Spectrum Analyzer is mainly used in development, repair and maintenance in various sectors of radar and communication equipment as well as in the spectrum monitoring and management department.

Key Features

- One click measurement.
- High measurement speed.
- Standard LAN and USB interface.
- Abundant measurement functions.
- Support both linear sweep and list sweep.

Typical Applications

- Occupied Bandwidth (OBW)
- Channel Power
- Spectrum Analysis
- Adjacent Channel Leakage Ratio (ACLR)

Frequency	
Frequency Range	100kHz - 18GHz
Frequency Span	10Hz - 18GHz or 0Hz
Bandwidth	
Resolution Bandwidth	1Hz - 3MHz (step by 1, 3, 10)
Video Bandwidth	1Hz - 3MHz (step by 1, 3, 10)
Phase Noise	
@1GHz, 1kHz offset	<-80dBc/Hz
@1GHz, 10kHz-30kHz offset	<-93dBc/Hz
@1GHz, 100kHz offset	<-95dBc/Hz
Residential Response	
10MHz -18GHz, preamplifier off	<-80dBm
10MHz - 4GHz, preamplifier on	<-95dBm
Displayed Average Noise Level (DANL)	
10MHz - 4GHz, preamplifier on	≤-153dBm

Displayed Average Noise Level (DANL)	
10MHz - 8GHz, preamplifier off	≤-133dBm
8GHz - 18GHz	≤-127dBm
Second-order Harmonic Distortion	
10MHz - 4GHz	<-50dBc
4GHz - 18GHz	<-58dBc
Sweep Time	
zero - span	1ms - 100s
Span≥1kHz	100ms - 100s
Maximum Safety Input Level	
+27dBm	
General	
Dimension (WxHxD)	330mmx230mmx95mm
Weight	<5kg
Battery Life	4h
Input Interface	N-female, 50Ω resistance

S3302 Handheld Spectrum Analyzers



S3302 series Spectrum Analyzer has a wide frequency range, high performance, fast scanning speed, multi-function test, easy operation and other advantages. It is widely used on site and widely applied to signal and equipment test in aerospace, microwave, satellite communications, wireless communications.

Key Features

- Wide frequency range from 9kHz to 44GHz.
- Low DANL level to -163dBm @ 1Hz RBW.
- Excellent phase noise performance.
- Fast scanning speed.
- A variety of measurement functions.
- Flexible interfaces and friendly UI.

Typical Applications

- Spectrum analysis.
- Field strength measurement.
- interference analysis.
- Analog demodulation.

Frequency Range	
S3302A	9kHz - 20GHz
S3302B	9kHz - 26.5GHz
S3302C	9kHz - 32GHz
S3302D	9kHz - 44GHz
Bandwidth	
Resolution Bandwidth	1Hz - 10MHz (step by 1-3)
Video Bandwidth	1Hz - 10MHz (step by 1-3)
Phase Noise	
@1GHz, 10kHz offset	<-102dBc/Hz
@1GHz, 100kHz offset	<-106dBc/Hz
@1GHz, 1MHz offset	<-111dBc/Hz
Residential Response	
10MHz - 13GHz, preamplifier off	<-90dBm
13GHz - 20GHz, preamplifier off	<-85dBm
20GHz - 44GHz, preamplifier off	<-80dBm
Displayed Average Noise Level (DANL)	
10MHz - 4GHz	≤-138dBm (Pre-amplifier on) ≤-157dBm (Pre-amplifier off)
4GHz - 6GHz	≤-135dBm (Pre-amplifier on) ≤-152dBm (Pre-amplifier off)

Displayed Average Noise Level (DANL)	
6GHz - 20GHz	≤-138dBm (Pre-amplifier on) ≤-157dBm (Pre-amplifier off)
20GHz - 32GHz	≤-135dBm (Pre-amplifier on) ≤-154dBm (Pre-amplifier off)
32GHz - 44GHz	≤-127dBm (Pre-amplifier on) ≤-148dBm (Pre-amplifier off)
Second-order Harmonic Distortion	
10MHz - 18GHz	<-60dBc
Sweep Time	
At zero-span	10μs - 600s
General	
Dimension	314 (W) × 218 (H) × 91 (D) mm (without the handle, brackets) 338 (w) × 218 (H) × 100 (D) mm
Weight	<5kg
Battery Life	2.5h
Input Interface	S3302A/B: N-type S3302C/D: 2.4mm (M)

S3503 Series Signal / Spectrum Analyzer



S3503 Series Signal / Spectrum Analyzer is featured with excellent dynamic range, phase noise, amplitude precision and testing speed. It has multiple spectrum/signal analysis functions. S3053 is applicable for signal and equipment test of fields including Aviation, aerospace, radar detection, communications, electromagnetic countermeasure, and navigation.

Key Features

- Wide frequency range. Optional Extenders extends to Max 325GHz.
- Maximum 200MHz analysis bandwidth.
- Comprehensive spectrum analysis. FFT sweep supported.
- Multi-domain correlation analysis and signal playback.
- Support analogue and digital signal output interface.

Typical Applications

- Comprehensive Performance Evaluation of Electronic Systems including Radar and Communication.
- Test and Debugging of Transmitter and Receiver.
- Configuration of intricate testing diagnostic system.

Frequency	
Frequency Range	3Hz - 4GHz/9GHz/13.2GHz/18GHz/26.5GHz/40GHz/ 45GHz/50GHz
Bandwidth	
Resolution Bandwidth	1Hz-3MHz/4MHz/5MHz/6MHz/8MHz/10MHz
Video Bandwidth	1Hz-3MHz/4MHz/5MHz/6MHz/8MHz/10MHz
Signal Analysis Bandwidth	10Hz-10MHz (Standard) 40MHz (Optional) 200MHz (Optional)
Phase Noise	
@1GHz, 100Hz offset	<-96dBc/Hz
@1GHz, 1kHz	<-115dBc/Hz
@1GHz, 10kHz offset	<-115dBc/Hz
@1GHz, 100Hz offset	<-125dBc/Hz
Min Displayed Average Noise Level (DANL)	
@1GHz	-153dBm/Hz
Scan Time Range	
Bandwidth>10Hz	1ms-4000s
Bandwidth 0Hz	1µs-6000s

Residential Response	
200kHz-9GHz	-100dBm
Third Order Intercept Distortion	
10MHz-4GHz (@-10dBm)	+13dBm
4GHz-9GHz (@-10dBm)	+11dBm
9GHz-50GHz (@-10dBm)	+13dBm
General	
Dimension (W×H×D)	510mm×190mm×534mm (Including handles, pad foot and footing)
	426mm×177mm×460mm (handles, pad foot and footing are not included)
Max. Weight	25kg
Power Supply	AC 220V/240V, 50/60Hz

S3531 Series Spectrum Analyzer



S3531 handheld spectrum analyzer is a stable and good performance product. S3531 provides a cost effective solution for spectrum analysis. It is suitable for RF components R&D, manufacture, maintenance and education.

Key Features

- Good specification with small size, low weight.
- Multiple communication interfaces, support SCPI for remote access
- Multi-window, multi-trace display
- Optional dual signal source (tracking source and normal source)

Typical Applications

- RF component manufacture/maintenance
- RF system test
- Education

		S3531A	S3531B
Specification			
Frequency range		9kHz - 1.8GHz	9kHz - 3GHz
Resolution		1Hz	1Hz
RBW Range		10Hz - 3MHz	10Hz - 3MHz
VBW Range		10Hz - 3MHz	10Hz - 3MHz
DANL (CF = 1GHz, RBW=1Hz)		<-135dBm Preamp off <-155dBm Preamp on	<-135dBm Preamp off <-155dBm Preamp on
SSB Phase Noise (CF=500MHz, RBW=1kHz)	Carrier offset 30kHz	-90dBc/Hz	-90dBc/Hz
	Carrier offset 100kHz	-100dBc/Hz	-100dBc/Hz
	Carrier offset 1MHz	-115dBc/Hz	-115dBc/Hz
Maximum safe input level	Average continuous power	+23dBm	+27dBm
	DC voltage	50Vdc maximum	50Vdc maximum
Input attenuator range		0 - 30dB, Steps of 3 dB	0 - 39dB, Steps of 1 dB
TOI	>30MHz	+13dBm	+13dBm
SHI		+30dBm	+30dBm
Input related spurious		<-60dBc	<-60dBc
Inherent residual response		<-85dBm	<-85dBm
Test Port		Type -N female (50Ω)	
Communication Port		USB, LAN	
General data			
Display		8 inch TFT LCD	8 inch TFT LCD
Dimensions		335(H)×162(W)×116(D)mm	335(H)×162(W)×116(D)mm
Weight		4kg	4kg
Power		100V - 240V, 60Hz AC	100V - 240V, 60Hz AC

S3532 Series Spectrum Analyzer



S3532 series spectrum analyzer covers a frequency range up to 7.5GHz. It provides a good performance with a low cost. S3532 is a good choice for RF product manufacturing and maintenance. It is also suitable for school education.

Key Features

- Good specifications, multi-functions
- Multiple communication interfaces, support SCPI for remote access
- Multi-window, multi-trace, clear display
- Optional dual signal source (tracking source and normal source)

Typical Applications

- RF component manufacture/maintenance
- Telecommunication equipment manufacture/Maintenance
- RF system test
- Education

		S3532A	S3532B
Specification			
Frequency range		9kHz - 3.6GHz	9kHz - 7.5GHz
Resolution		1Hz	1Hz
RBW Range		1Hz - 500kHz, 1MHz, 3MHz	1Hz - 500kHz, 1MHz, 3MHz
VBW Range		10Hz - 3MHz	10Hz - 3MHz
DANL (CF = 1GHz, RBW=1Hz)		<-135dBm Preamp off <-155dBm Preamp on	<-133dBm Preamp off <-148dBm Preamp on
SSB Phase Noise (CF=500MHz, RBW=1kHz)	Carrier offset 30kHz	-90dBc/Hz	-80dBc/Hz
	Carrier offset 100kHz	-100dBc/Hz	-90dBc/Hz
	Carrier offset 1MHz	-115dBc/Hz	-110dBc/Hz
Maximum safe input level	Average continuous power	+27dBm	+23dBm
	DC voltage	50Vdc maximum	50Vdc maximum
Input attenuator range		0 - 39dB, Steps of 3 dB	0 - 30dB, Steps of 1 dB
TOI	>30MHz	+13dBm	+15dBm
SHI		+30dBm	+40dBm
Input related spurious		<-60dBc	<-60dBc
Inherent residual response		<-85dBm	<-85dBm
Test Port		Type -N female (50Ω)	
Communication Port		USB, LAN	
General data			
Display		8.4 inch TFT LCD	8.4 inch TFT LCD
Dimensions		390(H)×182(W)×230(D)mm	390(H)×182(W)×230(D)mm
Weight		6.5Kg	6.5Kg
Power		100V - 240V, 60Hz AC	100V - 240V, 60Hz AC

SAV501 Modular Spectrum Analyzer



SAV501 is a modular spectrum analyzer which can archive the specifications of the main stream spectrum analyzers. SAV501 can be connected to a PC to collect data and display trace/ information. The modular spectrum analyzer also provides USB, LAN interfaces and support SCPI for remote access.

Key Features

- Modular product
- Good specification with small size, low weight.
- Multiple communication interfaces, support SCPI for remote access
- Easy for system integration

Typical Applications

- RF component manufacture/maintenance
- Test system integration
- Education

		SAV501A	SAV501B	SAV501C
Specification				
Frequency range		9kHz - 1.6GHz	9kHz - 3.6GHz	9kHz - 7.5GHz
Resolution		1Hz	1Hz	1Hz
RBW Range		10Hz - 3MHz	1Hz - 500kHz, 1MHz, 3MHz	1Hz - 500kHz, 1MHz, 3MHz
VBW Range		10Hz - 3MHz	10Hz - 3MHz	10Hz - 3MHz
DANL (CF = 1GHz, RBW=1Hz)		<-135dBm Preamp off <-155dBm Preamp on	<-135dBm Preamp off <-155dBm Preamp on	<-133dBm Preamp off <-147dBm Preamp on
SSB Phase Noise (CF=500MHz, RBW=1kHz)	Carrier offset 30kHz	-90dBc/Hz	-90dBc/Hz	-80dBc/Hz
	Carrier offset 100kHz	-100dBc/Hz	-100dBc/Hz	-90dBc/Hz
	Carrier offset 1MHz	-110dBc/Hz	-110dBc/Hz	-110dBc/Hz
Maximum safe input level	Average continuous power	+23dBm	+27dBm	+23dBm
	DC voltage	50Vdc maximum	50Vdc maximum	50Vdc maximum
Input attenuator range		0 - 30dB, Steps of 3 dB	0 - 39dB, Steps of 3 dB	0 - 30dB, Steps of 1 dB
TOI	>30MHz	+13dBm	+13dBm	+15dBm
SHI		+30dBm	+30dBm	+40dBm
Input related spurious		<-60dBc	<-60dBc	<-60dBc
Inherent residual response		<-85dBm	<-85dBm	<-85dBm
Test Port		SMA female (50Ω)		
Communication Port		USB, LAN		
General data				
Display		External PC	External PC	External PC
Dimensions		120 x 80 x 28	120 x 145 x 28	140 x 145 x 28
Weight		450g	800g	1.1kg
Power		5V 1.5A DC	5V 1.6A DC	5V 1.8A DC

S3700 Radio Monitoring Receiver



S3700 is a miniaturized receiver for the grid radio monitoring. S3700 cluster can be used to build a TCP / IP-based spectrum sensing network and provide comprehensive, reliable and flexible wide radio monitoring.

S3700 is capable to capture instantaneous and FH signals. Therefore it can manage intricate and multiple signal-monitoring tasks.

Key Features

- Frequency Range 20MHz - 6GHz.
- 20MHz real time analysis bandwidth.
- 2 RF Input Interfaces.
- Multiple trigger capture functions.
- IQ / FFT data stream output
- 20ns synchronization accuracy and 100ns time-stamp accuracy
- Abundant programming interfaces.
- Small size, easy to install.

Typical Applications

- Grid Radio Monitoring
- Location of Radio Emission

Frequency	
Frequency Range	20MHz - 6GHz
Bandwidth	
Max. Analysis Bandwidth	20MHz
Scan Speed	
Scan Speed	>4GHz/s (RBW 10kHz)
Phase Noise	
CF = 1GHz	< -90dBc/Hz @10kHz
Displayed Average Noise Level (DANL)	
pre-amplifier on	-158dBm/Hz
pre-amplifier off	-135dBm/Hz
Image Rejection	
	> 85dB
Amplitude Accuracy	
	±3.0dB
RF Input Port	
	N (F) (50Ω) , 2 channel
Max. Input Power	
	+20dBm
Antenna Port Isolation	
20 - 600MHz	>40dB
600 - 6000MHz	>30dB

Port VSWR	
	<2.5:1
Data Type	
	I / Q time series or FFT spectral data
Memory Capacity	
	2GB
Clock synchronization	
	GPS
Timestamp Data accuracy	
	<100ns
Data Transmission	
	LAN, RJ-45
GPS Interface	
	TNC (F)
Clock synchronization	
operating Temp. (°C)	-20°C - +55°C (-4°F-122°F)
Power Supply	DC: 12 - 18V
Max. Power Consumption	30W
Weight (kg)	5 kg
Dimension (L*W*H)	295mm*83mm*270mm

S3101 Handheld Cable & Antenna Analyzer



S3101 is a Cable and Antenna Analyzer with advanced technology. It is designed for antenna feeder test on site. It can provide a fast, accurate measurement within small size and low weight. S3101 can work up to 8hrs powered by batteries. It can do a great help to boost troubleshooting and testing efficiency.

Key Features

- Frequency range: 1MHz to 4 GHz
- Impact, dust, and splash resistant
- Measurement of return Loss, VSWR, Cable Loss, DTF Return Loss, DTF VSWR, Smith Chart and Phase
- One button calibrator
- 8 working hours battery power supply
- 7-inch LCD touch screen provides bright display both indoors and out-doors with large view angle
- Built-in GPS receiver

Test Function	
Return loss, VSWR, Cable loss, DTF Return Loss DTF VSWR, Smith Chart and Port Phase	
Frequency Range	
1MHz - 4GHz	
Initial Frequency Error	
$\pm 2 \times 10^{-6}$ (23°C)	
Temperature Stability	
$\pm 1 \times 10^{-6} / 10^\circ\text{C}$	
Frequency Resolution	
1kHz	
Measurement Speed	
1ms/frequency (10kHz IF bandwidth)	
Directional	
Mechanical calibration	$\geq 42\text{dB}$
Embedded electronic calibration	$\geq 36\text{dB}$
Source Match	
Mechanical calibration	$\geq 31\text{dB}$
Embedded electronic calibration	$\geq 27\text{dB}$

Reflection Tracking	
Mechanical calibration	$\pm 0.08\text{dB}$
Embedded electronic calibration	$\pm 0.40\text{dB}$
General	
Power Adapter	110V (1±10%) or 220V (1±10%), 50Hz (1±5%)
Operating Temperature	-10°C - +55°C (14 °F - +131 °F), humidity 85% or less
Storage Temperature	-40°C - +70°C (-40 °F - +158 °F)
Battery Life	8 hours (70% screen brightness); 6 hours (With build-in electronic calibration kit)
Test Port	Type N female head
10MHz Input / Output Interface	BNC
GPS Cable Interface	BNC
Dimensions (WxHxD)mm	295x205x70
Weight	2.5kg (Battery included)

S3601A / B Vector Network Analyzer



S3601 is a powerful and efficient Vector Network Analyzer widely used in industries like wireless communications, cable TV, and automotive electronics, etc. S3601 is capable to do a accurate measurement to filters, amplifiers, antenna, cable etc. S3601 has a LCD screen and a friendly GUI. It also support various interfaces such as USB, LAN, GPIB and VGA to build a measurement system.

Key Features

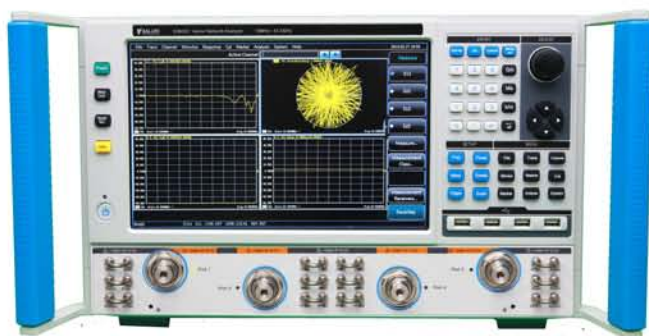
- Frequency range 100kHz~3GHz/6GHz
- 125dB wide dynamic range.
- Multiple calibration methods.
- Standard interfaces including USB, LAN, GPIB, VAG
- Low noise level, good measurement performance.
- Various display formats including logarithmic amplitude, linear range, standing wave, phase, group delay, smith chart, polar diagram.
- Multi-window, multi-channel measurement display.

Typical Applications

- Measure communication products
- Passive multi-port device and balance device test

Specifications		
Model	S3601A	S3601B
Frequency Range	100KHz - 3GHz	100KHz - 8.5GHz
Frequency Resolution	1Hz	
Output Power	-45dBm - 10dBm	-55dBm - 10dBm
Max. Dynamic Range	125dB	125dB
IF Bandwidth	1MHz - 5MHz	
Number of Built-In Ports	2	2
Measurement Point	1 - 16001	
No. of Measurement Receiver	4	
Reference Level Amplitude Setting	Range: ± 500 dB; Resolution: 0.001dB	
Reference Phase Settings	Range: $\pm 500^\circ$; Resolution: 0.01 $^\circ$	
Measurement Fields	Frequency domain and Time domain	
General		
Dimension (W x H x D)	435*233*348mm	
Weight	16Kg	
Power Supply	50Hz 220V AC / 60Hz 110V AC	
Interface	N (F), 50 Ω system impedanceN (F), 75 Ω system impedance (optional 001)	

S3602 Series Vector Network Analyzer



S3602 series VNA can be universally implemented in fields including transmission/reception module measurement, dielectric material property measurement, microwave pulse characteristic measurement and photoelectric property measurement.

Key Features

- Frequency coverage from 10MHz to 67GHz. Extension modules can extend up to 325GHz.
- Flexible Calibration Types, Compatible with many Calibration Parts
- Multi-window, multi-channel measurement, instantly execute intricate measurement plan
- A variety of measurement functions.

Typical Applications

- Mixer Test
- Filter Test
- Integrated Pulse S Parameter Test

Specifications

Model	Models for S3602				
	A	B	C	D	E
Maximum Frequency	10MHz - 13.5GHz	10MHz - 26.5GHz	10MHz - 43.5GHz	10MHz - 50GHz	10MHz - 67GHz
Frequency Resolution	1Hz	1Hz	1Hz	1Hz	1Hz
Max. Dynamic Range	127dB	127dB	121dB	121dB	110dB
Max. Power Scan Range	38dB	38dB	31dB	31dB	32dB
Max. Output Power	13 dBm	13 dBm	11 dBm	11 dBm	8dBm
Min. Trace Noise	0.002dBrms	0.002dBrms	0.004dBrms	0.004dBrms	0.004dBrms
Effective Directivity	>44dB		>36dB		>32dB
Effective Source Match	>30dB		>27dB		>25dB
Effective Load Match	>44dB		>35dB		>30dB
Reflection Tracking	±0.04dB - ±0.05dB		±0.03dB - ±0.04dB		±0.05dB - ±0.10dB
Transmission Tracking	±0.10dB - ±0.12dB		±0.10dB - ±0.20dB		±0.10dB - ±0.20dB
Number of Built-In Ports	2 or 4 ports	2 or 4 ports	2 or 4 ports	2 or 4 ports	2 or 4 ports
Harmonics	-60 dBc	-60 dBc	-60 dBc	-60 dBc	-60 dBc
IF Bandwidth	1Hz - 5MHz	1Hz - 5MHz	1Hz - 5MHz	1Hz - 5MHz	1Hz - 5MHz
General					
Dimension (include handle, foot)	463mm x 279.5mm x 640mm		463mm x 279.5mm x 690mm		463mm x 281mm x 690mm
Weight	42kg		47kg		50kg
Interface	3.4mm (M)		2.4mm (M)		1.85mm (M)
Impedance	50ohm				

S3631 Series Vector Network Analyzer



Saluki S3631 Series vector network analyzer is an economic series VNA products. S3631 covers a frequency range from 300kHz - 8GHz and provides good noise level, dynamic range specifications. S3631 is positioned as an economic VNA solution for manufacturing and R&D of RF components and circuits.

Key Features

- Frequency Range: 300kHz - 1.3GHz/3GHz/8GHz
- Dynamic Range: >125 dB (IFBW=10 Hz), 130 dB typical
- Low Noise Level: <-120 dB (IFBW=10 Hz)
- Low Trace Noise: 1 mdB rms (IFBW=3 kHz)
- High Measurement Speed: 100 μ s/point (IFBW=30 kHz)
- High Effective Directivity: >45 dB
- Remote Control: LAN/GPIB/USB
- Low Power Consumption: 60W

Typical Applications

- S Parameter Test of RF components

	S3631A	S3631B	S3631C	S3631D
Frequency range	300kHz - 1.3GHz	300 kHz - 1.5 GHz	300 kHz - 3.0 GHz	300kHz - 8GHz
Dynamic range (IF bandwidth 10 Hz)	125dB, 130dB(typ.)			
Effective directivity	45 dB	45 dB	45 dB	45 dB
Effective source match	40 dB	40 dB	40 dB	40 dB
Effective load match	-	45 dB	45 dB	45 dB
Power range	-55 dBm to +3 dBm	-55dBm to +10dBm	-55dBm to +10dBm	-60dBm to +10dBm (300 kHz to 6.0 GHz) -60dBm to +5dBm (6.0 GHz to 8.0 GHz)
Harmonics distortion	-	<-30dBc	<-30dBc	<-25dBc
Non harmonics distortion	-	<-30dBc	<-30dBc	<-30dBc
Damage level	+ 26dBm	+ 26dBm	+ 26dBm	+ 26dBm
Damage DC voltage	+ 35V	+ 35V	+ 35V	+ 35V
DANL (IFBW=10 Hz)	- 120dBm	- 120dBm	- 120dBm	- 120dBm
Magnitude Trace noise (IFBW 3 kHz)	1mdB rms	1mdB rms	1mdB rms	1mdB rms
Sweep Point	2 - 1601	2 - 10001	2 - 10001	2 - 10001
Measurement time per point	150ms	125ms	125ms	100ms
Measured parameters	S11, S21	S11, S12, S21 & S22	S11, S12, S21 & S22	S11, S12, S21 & S22
General				
Display	10.4 inch TFT color LCD, touch screen			
Interfaces	VGA, GPIB(option), USB, LAN			
Power supply	220 \pm 22 V (AC), 50 Hz Battery. 11000mAh, 12V, DC-AC adapter			
Dimensions (W x H x D)	440 x 231 x 360			
Weight	10kg	12.5 kg	12.5 kg	12.5 kg

S5101 Handheld Radio Communication Analyzer



S5101 Handheld Radio Communication Analyzer is the ideal radio tester for laboratory, production, service and maintenance use. It combines radio frequency emission, reception analysis, audio source, analyzer, etc. all into one unit. It can measure the performance of radio from 2MHz to 1GHz, interphone, audio equipment as well as testing communication cables and standing-wave ratio.

Key Features

- Optional extensions enable the S5101 to satisfy almost all requirements of radio measurements and even to cover related fields
- Light-weight handheld design with low power consumption.
- Build-in high power capacity battery for long time field applications
- Impact, dust, and splash resistant
- 7" high contrast, backlit LCD screen with high resolution
- A clear menu structure allows fast and direct access to all measurement facilities

Frequency	
Frequency Range	2MHz - 1GHz (Source 1)
	2MHz - 400MHz (Source 2, ANT output)
Resolution	1Hz
Amplitude	
Output level	-5dBm - -55dBm(SWR, Source 1)
	-5dBm - -100dBm(ANT, Source 1)
	-50dBm - -125dBm(T/R, Source 1)
	0dBm - -100dBm(ANT, Source 2)
Spectral Purity	
Single Sideband phase noise	≤ -95 dBc/Hz (Frequency offset 20kHz)
Harmonic spurious	≤ -30 dBc
Non-harmonic spurious	≤ -35 dBc (Frequency offset > 20kHz)
Build-in AM	
Frequency range	30Hz - 5kHz
Amplitude range	0 - 100%
Build-in FM	
Frequency range	20Hz - 20kHz
Offset range	Max. 100kHz

External AM	
Audio input	
Switchable load	150 Ω , 600 Ω , 1k Ω , High Z
Input level	0.05Vp - 3Vp
Frequency range	300Hz - 5kHz
Microphone input	
Level range	20mVrms - 350mVrms
Frequency range	300Hz - 3kHz
Amplitude range	0 - 80%
External FM	
Audio input	
Switchable load	150 Ω , 600 Ω , 1k Ω , High Z
Input level	0.05Vp - 3Vp
Frequency range	300Hz - 5kHz
Microphone input	
Level range	200mVrms - 350mVrms
Frequency range	300Hz - 5kHz
Offset range	0Hz - 80kHz
General	
Dimension (WxHxD)	295mmx195mmx70mm
Weight	<2.6kg
Battery Capacity	7000mAh

S5102 Handheld RF Tester



S5102 Handheld RF Tester, within the frequency range from 100KHz to 6GHz, has incorporated within itself multiple functions including dual-port vector network analysis, cable and antenna test, vector voltage test, spectrum analysis, field strength test and power measurement, providing you with powerful and comprehensive analysis capability.

Cable & Antenna Test	
Frequency Range	1MHz - 6GHz
Frequency Accuracy	$\pm 2 \times 10^{-6}/(23^\circ\text{C})$, $\pm 1 \times 10^{-6}/10^\circ\text{C}$
Frequency Resolution	10Hz
Effective Directionality	$\geq 38\text{dB}$
Effective Source Termination	$\geq 32\text{dB}$
Reflection Tracking	$\pm 0.08\text{dB}$
Vector Network Analyzer	
Frequency Range	1MHz - 6GHz
Frequency Resolution	10Hz
Effective Directionality	$\geq 38\text{dB}$
Effective Source Termination	$\geq 32\text{dB}$
Reflection Tracking	$\pm 0.08\text{dB}$
Transmission Tracking	$\pm 0.08\text{dB}$
Dynamic Range	1MHz-100MHz $\geq 75\text{dB}$
	100MHz-6GHz $\geq 70\text{dB}$
Power Detector	
Frequency Range	100kHz - 6GHz
Power Range	-60dBm - +20dBm
Power Accuracy	$\pm 4\text{dB}$

Key Features

- A variety of test functions include network test, spectrum test, antenna test etc.
- Easy to take, easy to operate
- Friendly UI
- Long working hours with battery power supply

Typical Applications

- Radar Performance Parameter Test
- Multi-parameter Test of fields including Cable TV, Wireless Communication.

Spectrum Analysis	
Frequency Range	100kHz - 6GHz
Resolution Bandwidth	1Hz - 3MHz (step by 1,3,10)
Video Bandwidth	1Hz - 3MHz (step by 1,3,10)
Display Average Noise Level	10MHz - 4GHz $\leq -148\text{dBm}$ (Preamplifier on)
	4GHz - 6GHz $\leq -145\text{dBm}$ (Preamplifier on)
	10MHz - 4GHz $\leq -133\text{dBm}$ (Preamplifier off)
Noise Sideband CF=1GHz	4GHz - 6GHz $\leq -130\text{dBm}$ (Preamplifier off)
	$\leq -90\text{dBc/Hz}@10\text{kHz}$
	$\leq -93\text{dBc/Hz}@30\text{kHz}$
	$\leq -95\text{dBc/Hz}@100\text{kHz}$
General	
Display	7 inch color TFT-LCD (800*480mm)
Power Supply	Rechargeable Lithium-ion Battery or Power Adapter
Power	$\leq 32\text{W}$ (Except for battery charging)
Operating Temp.	$-10^\circ\text{C} - +50^\circ\text{C}$ ($14^\circ\text{F} - 122^\circ\text{F}$)
Storage Temp.	$-40^\circ\text{C} - +70^\circ\text{C}$ ($-40^\circ\text{F} - 158^\circ\text{F}$)
Weight (kg)	4.3kg (without battery)
Dimension (L*H*W)	330mm*230mm*116mm

S2102 OTDR



S2102 OTDR is ideal for access and FTTH network testing. It enables the user to test through 1x32 and even 1x64 splitters for PON testing. The S2102 OTDR can provide single mode and/or multimode testing capabilities. It is designed to test up to four wavelengths in a single unit (ex. a combination of 1300, 1310, 1490, 1550, 1625 and 1650nm wavelengths). The S2102 can be used for long range to FTTH, CATV, LAN, Access and Metro networks.

Key Features

- Event dead zone: <1m
- Dynamic range: up to 45dB
- Battery autonomy: >8 hours
- High-speed auto measurement & analysis
- Unique PON testing capability
- Visible fault locating (VFL)
- Supporting Bellcore GR196 & SR-4731 file format
- Abundant external interface
- Remote function via Ethernet

Typical Applications

- Access Network Testing
- LAN/WAN Characterization
- Private Networks

Specification	
Distance Range (km)	Single mode: 0.4,0.8,1.6,3.2,6.4,16,32,64,128,256,512
Pulse Width (ns)	Single mode: 5,10,30,80,160,320,640,1280,5120,10240,20480
Linearity (dB/dB)	±0.05
Loss Threshold (dB)	0.01
Loss Resolution (dB)	0.001
Sampling Resolution (m)	0.05,0.1,0.2,0.5,1,2,4,8,16,32
Sampling Points	Up to 128k
Distance Uncertainty (m)	±(0.75m + sample space + measurement distance×0.0025%)
Distance Unit	km, m, kft, ft
Memory Capacity	≥ 800 traces(build-in),
Group Refractive Index Setting	1.00000 to 2.00000 (0.00001steps)
VFL (Optional)	650nm±30nm, 2mW(typical); CW/1Hz
Optical Power Meter(Optional)	Wavelength range: 1200nm to 1650nm
	Measurement range: -60 to 0dBm
	Measurement accuracy: ±5% (-25dBm, CW)
General	
Dimension (WxHxD)	186mm x295mm x 75mm
Weight	2.2kg
Battery Life	8h

SAV82406 Series Signal Generator Extension Module



SAV82406 series signal generator extension module is a new generation millimeter wave extender. Connect SAV82406 to a microwave signal source via a RF cable can easily compose a millimeter-wave signal generation system. Frequency, power of output signal is determined by input signal from synthesized signal source. A DC adapter is provided to power the module.

Key Features

- Frequency Range: 50GHz - 500GHz.
- Input Signal Frequency Requirement: < 20GHz.
- Power Supply: 15V DC adapter
- Compact, lightweight, low power consumption, standard interface
- Built-in high-gain microwave amplifier; low level input signal is acceptable.

Typical Applications

- Signal generator for millimeter-wave radar test
- Signal generator for millimeter-wave communication

Frequency Range	
SAV82406A	50GHz - 75GHz
SAV82406B	75GHz - 110GHz
SAV82406C	110GHz - 170GHz
SAV82406D	170GHz - 220GHz
SAV82406E	220GHz - 325GHz
SAV82406F	325GHz - 500GHz
Multiplication Factor	
SAV82406A	4
SAV82406B	6
SAV82406C	12
SAV82406D	12
SAV82406E	18
SAV82406F	36
Output Power	
SAV82406A	+13dBm
SAV82406B	+10dBm
SAV82406C	+2dBm
SAV82406D	-2dBm
SAV82406E	-8dBm
SAV82406F	-18dBm

RF Signal Input Interface	
3.5mm Female	
RF Signal Output Interface	
SAV82406A	WR15
SAV82406B	WR10
SAV82406C	WR6.5
SAV82406D	WR5.1
SAV82406E	WR3.4
SAV82406F	WR2.2
General	
Power Supply	15V-18V DC
Power Consumption	<20W
Dimension (L×H×W)	240mm×120mm×85mm

SAV82407 Series Spectrum Analyzer

Extension Module



SAV82407 series Spectrum Analyzer Frequency Extension Module is designed for S3503 series Signal Analyzer and make it a millimeter wave level instrument. It fulfills the requirements on millimeter-wave signal analysis.

Key Features

- Frequency Range: 50GHz - 325GHz.
- Low frequency conversion loss.
- Small size, light weight.
- Accurate amplitude measurement ensured by wider LO power range
- Auto configuration via smart USB port for S3503

Typical Applications

- Work together with signal analyzer to achieve millimeter wave signal analysis

Specifications

Model	SAV82407A	SAV82407B	SAV82407C	SAV82407D	SAV82407E
Frequency Range(GHz)	50 - 75	75 - 110	110 - 170	140 - 220	220 - 325
RF Input Interface	WR15	WR10	WR6	WR5	WR3
	UG385U	UG387U-M	UG387U-M	UG387U-M	UG387U-M
No. of Harmonic	5	7	9	7	9
Conversion Loss (Max. dB)	24	28	36	40	48
Noise Level (dBm/Hz)	-132	-130	-120	-115	-110
Local Oscillator Power	12 - 18 dBm	12 - 18 dBm	12 - 18 dBm	12 - 18 dBm	12 - 18 dBm
Max. RF input power(dBm)	15	15	15	15	15
General					
Dimensions(mm)	110×70×25.2				
Weight	Approx. 330g				

SAV364X Series VNA S Parameter

Test Module



SAV364X Series S parameter test module is a top-level VNA frequency extender. The S parameter test module is used to build a vector network measurement system together with a VNA and a millimeter frequency controller. The system can do millimeter wavelength level S parameter measurement.

Key Features

- Frequency Range: 50GHz - 325GHz.
- Multiple Calibration methods.
- 2 ports measurement with millimeter frequency extender controller.

Typical Applications

- Millimeter wavelength level vector network measurement.

Specifications of SAV364X Extension Modules					
Model	SAV3644A	SAV3645A	SAV3646A	SAV3649	SAV3649A
Frequency Range	50GHz - 75GHz	75GHz - 110GHz	110GHz - 170GHz	170GHz - 220GHz	220GHz - 325GHz
Output Power	+3dBm	+3dBm	-10dBm	-10dBm	-13dBm
Dynamic Range (dB)	95	95	80	95	90
Reflection Tracking (dB)	±0.15	±0.15	±0.15	±0.5	±0.5
Transmission Tracking (dB)	±0.15	±0.15	±0.15	±0.5	±0.5
Effective Directionality (dB)	38	36	34	30	25
Effective Source Match (dB)	38	36	34	30	25
Effective Load Match (dB)	38	36	34	30	25
Interface	WR15	WR10	WR06	WR05	WR03
	Impedance 1ohm	Impedance 1ohm	Impedance 1ohm	Impedance 1ohm	Impedance 1ohm
Specifications of SAV3640 Extension Controller					
Model	Frequency Range	Output Power	Control Port	Output Power	Power
SAV3640	8GHz - 20GHz	10 ± 1dBm	Device Test Port	12VDC@2A	AC 220/240V: 50/60Hz
General					
Power Supply	SAV3644A/45A/46A: 12V DC, 2A SAV3649/49A: 12V DC, 3A				
Dimension (L×H×W)	SAV364X: 120mm×90mm×240mm SAV3640: 426mm x 177mm x 460mm				