S3601A Vector Network Analyzer

(Frequency range from 100kHz - 3GHz)

Key Features

- Frequency range: 100kHz - 3GHz
- 10.4 inch high-resolution color LCD touch screen.
- 125dB wide dynamic range
- 75Ω optional test port impedance, supports for cable TV components measurement
- 0.001dBrms trace noise renders network analyzer higher measuring accuracy
- With up to 64 independent measuring channels that can implement complex testing schemes quickly
- Capable of completing time domain analysis
- Support LAN, USB, GPIB and VGA interface
- Windows XP operating system
- Support Data storage, communication and printing.

Typical Applications

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

S3601 series' Vector Network Analyzer is used for vector network analysis for the field of wireless communications, cable TV, and automotive electronics, etc., also used for performance measurement of filters, amplifiers, antenna, cable, CATV's sub connectors. It adopted windows operation system, has error calibration and time domain functions.

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S3601A provides multiple calibration methods, including frequency response, single port, response isolation, enhanced response and full two-port calibrations, rapid SOLT and electrical calibration.

What's more, S3601 series' vector network analyzer is with windows operating platform and LAN functions, can display multiple channels, with interfaces of USB, LAN, GPIB, VGA and color LCD display, all of which made it possible to quickly and accurately measure the S-parameter amplitude, phase and group delay characteristics of DUT, with efficient and powerful error correction capability.

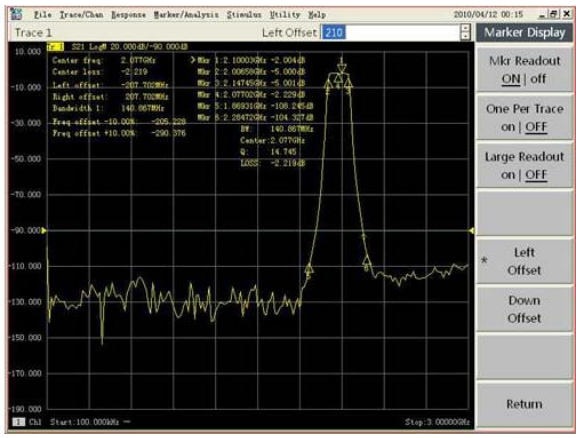
Features To Boost Your Efficiency

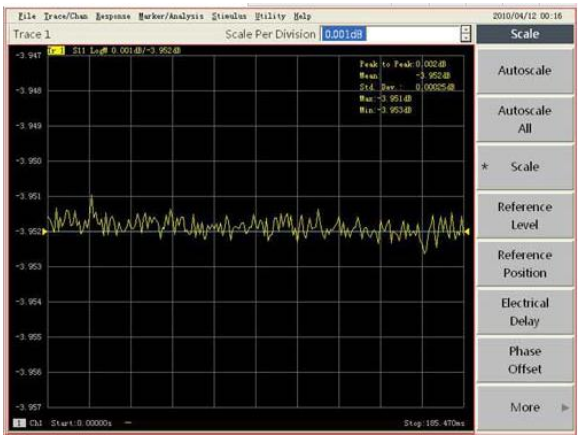
Wide Dynamic Range

S3601 has a dynamic range of 120dB (IFBW=10Hz) for accurate measurement of device with high suppression ratio.

Extremely Low Trace Noise

Trace noise is less than 0.005dBrms (IFBW=1kHz), with typical value of 0.0005 dBrms, which minimizes measurement error.





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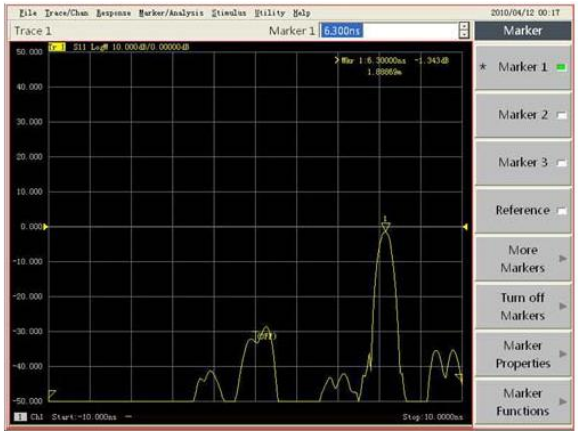
Time-domain analysis function
The analyzer can measure the time-domain of DUT by means of time-domain software so as to test the performance indicators of DUT comprehensively.



Powerful Data-Analysis Function
Featured with multiple analytical functions including limit test, ripple test, bandwidth test and filter automatic statistics, the analyzer is capable of viewing all loss, ripple and suppression and debugging frequency hopping filter.

Typical Applications

Test of Passive Multi-port Devices & Balancing Devices
The Four-port Vector Network Analyzer combined by S3601 Vector Network Analyzer and SAV2813A S-Parameter Testing Device, capable of testing 16 S-parameters of four-port network by a single connection, is satisfactorily suitable for the factories' volume production test of multi-port devices; The combined analyzer is characterized with equilibrium parameter measurement function; it is capable of procuring the mixed S-parameter of balancing devices by using three or four testing ports (after the full three or four ports calibration) and choosing corresponding work pattern (single-ended---balanced network, single-ended---single-ended---balanced network, balanced---balanced network).

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Production Test of Mobile Communication Products

The frequency range of S3601 Series Vector Network Analyzer can meet the requirements of the production test of mobile communication products. Featured with fast scanning speed, large dynamic range and small size, this analyzer is not only satisfactorily suitable for the factories' volume production test, but also for test of RF components including filter, amplifier, cable and antenna. The analyzer can also conduct performance test of CATV components by selecting 75Ω testing components.

Technical Specifications

S3601A Vector Network Analyzer			
Frequency Range	100KHz - 3GHz		
Frequency Resolution	1Hz		
Frequency Accuracy	5×10^{-6}, (23℃±3℃)		
Output Power	-45 ~ +10dBm		
IF Bandwidth	1Hz - 100KHz		
System Dynamic Range	IF Bandwidth 10Hz	90dB (100KHz -1MHz)	
		110dB (1MHz -10GHz)	
		125dB (10MHz - 3GHz)	
	IF Bandwidth 3KHz	60dB (100KHz -1MHz)	
		80dB (1MHz -10GHz)	
		95dB (10MHz - 3GHz)	
Test Port Specifications	**Frequency Range**	100K - 10MHz	10M -3GHz
	Effective Directivity	49dB	46dB
		49dB (Optional:001)	46dB (Optional:001)
	Effective Source Matching	44dB	40dB
		43dB (Optional:001)	21dB (Optional:001)
	Active Load Matching	49dB	46dB
		48dB (Optional:001)	41dB (Optional:001)
Reflection Track	±0.030dB (100KHz - 10MHz), ±0.020dB (10MHz - 10MHz)		
Transmission Track	±0.030dB (100KHz - 10MHz) , ±0.020dB (10MHz - 10MHz)		

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Measurement Point	1 - 16001	
IF Bandwidth	Min.: 1Hz, Max.: 5MHz, step by 1,2,3,5,7	
Interface	N (F), 50Ω system impendence N (F), 75Ω system impendence (optional 001)	
No. of Measurement Ports	2	
No. of Measurement Receiver	4	
Reference Level Amplitude Setting	Range: ±500dB; Resolution: 0.001dB	
Reference Phase Settings	Range: ±500°; Resolution: 0.01°	
Output of Time Base Reference	Output Frequency	10MHz
	Output Level	+10dBm ±4dB
Display	10.4 inch 800×600 color LCD screen	
Data Transmission	GPIB, USB, LAN, VGA	
Measurement Fields	Frequency domain and Time domain	
Operating System	Windows XP	

S3601A + SAV2813A (4 Port Test Set, Optional S3601A-17)		
Frequency Range	100kHz - 3GHz	
Output Power Setting Range	-15dBm ~ +10dBm	
System Dynamic Range	IF Bandwidth 10Hz	80dB (100KHz - 1MHz)
		100dB (1MHz - 10MHz)
		115dB (10MHz - 3GHz)
	IF Bandwidth 3KHz	55dB (100KHz - 1MHz)
		75dB (1MHz -10MHz)
		90dB (10MHz - 3GHz)
Test Port Specifications	Frequency Range	100kHz - 3GHz
	Effective Directivity	46 dB
	Effective Source Matching	36 dB
	Active Load Matching	44 dB
Reflection Track	±0.050dB (100KHz - 10MHz), ±0.030dB (10MHz - 3GHz)	
Transmission Track	±0.050dB (100KHz - 10MHz), ±0.030dB (10MHz - 3GHz)	
Interface	N (F), 50Ω system impendence	
No. of Measurement Ports	4	
Weight（S3601A-17）	8.0kg	
Dimension (S3601A-17)	435mmx102mmx364mm (LxHxW)	

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Optional Package for S3601A

Part No.	Name	Qty
S3601A-01	75Ω Port Impedance system	1 PC
S3601A-02	N Type Test Cable（GORE-OSZKUZKU0240）Male - Male, 60cm	1 PC
S3601A-03	N Type Test Cable（GORE-OSZKUZKV0240）Female - Male, 60cm	1 PC
S3601A-04	N Type Calibration Kit, DC - 3GHz (SAV20205)	1 PC
S3601A-05	N Type 75Ω Calibration Kit (SAV20204)	1 PC
S3601A-06	Economic type testing cable ET06-NMSM-0.8M N Type to 3.5mm, male - male, 80cm	1 PC
S3601A-07	Economic type testing cable ET06-NMNF-0.8M N type connector, female to male, 80cm	1 PC
S3601A-08	Economic type testing cable ET06-NMNM-0.8M N type connector, male to male, 80cm	1 PC
S3601A-09	Economic type phase-compensated testing cable 197C-NMSM-0.8M N Type to 3.5mm connector, male to male, 80cm	1 PC
S3601A-10	Economic type phase-compensated testing cable 197C-NMNF-0.8M N Type connector, female to male, 80cm	1 PC
S3601A-11	Economic type phase-compensated testing cable 197C-NMNM-0.8M N type connector, male to male, 80cm	1 PC
S3601A-12	N-type 75Ω calibration kit 24-0800-51M1-51M1	1 PC
S3601A-13	Electronic calibration Kit, 300KHz - 18GHz (SAV20402) N Type (Female to Male), 2 port	1 PC
S3601A-14	Electronic calibration Kit, 10MHz - 26.5GHz (SAV20403) 3.5mm, female to male, 2 port	1 PC
S3601A-15	Electronic calibration Kit, 10MHz-20GHz (SAV20405) 3.5mm female to male, 4 port	1 PC
S3601A-16	Patch Cord for Front Panel Support quad-port expansion and receiver-through test	1 PC
S3601A-17	SAV2813A Four-port test set (Required S3601A-16 to support)	1 PC
S3601A-18	Aluminum Carrying case	1 PC
S3601A-19	Programming Manual	1 PC

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Optional Package for S3601A + SAV2813A (4 Port Test Set)

Part No.	Name	Qty
SAV2813A-01	N Type Testing Cable (GORE-OSZKUZKU0240) male - male, 60cm	1 PC
SAV2813A-02	N Type Testing Cable (GORE-OSZKUZKV0240) female - male, 60cm	1 PC
SAV2813A-03	S3601 series Programming Manual	1 PC
SAV2813A-04	N Type Calibration Kit, DC-3GHz (SAV20205)	1 PC
SAV2813A-05	Economic type testing cable ET06-NMSM-0.8M N Type to 3.5mm, male - male, 80cm	1 PC
SAV2813A-06	Economic type testing cable ET06-NMNF-0.8M N type connector, female - male, 80cm	1 PC
SAV2813A-07	Economic type testing cable ET06-NMNM-0.8M N type connector, male - male, 80cm	1 PC
SAV2813A-08	Economic type phase-compensated testing cable 197C-NMSM-0.8M N Type to 3.5mm connector, male - male, 80cm	1 PC
SAV2813A-09	Economic type phase-compensated testing cable 197C-NMNF-0.8M N Type connector, female - male, 80cm	1 PC

General Information for S3601A

Operation Temp.	0℃ - ＋40 ℃ (32℉ - 104℉)
Storage Temp.	-20℃ - ＋70 ℃ (-4℉-158℉)
Relative Humidity	≤ 90% RH
Power Supply	50Hz single-phase 220V; Or 50/60Hz single-phase , AC 110V
Power	150W
Weight(Kg)	16KG
Dimensions (LxHxW)	435×233 ×348mm

Standard Package for S3601A

Item	Name	Qty
1	S3601A Vector Network Analyzer	1 Set
2	Power Cord	1 PC
3	USB Mouse	1 PC
4	User Guide	1 PC

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Standard Package for S3601A + SAV2813A (4 Port Test Set)

Item	Name	Qty
1	S3601A Vector Network Analyzer + SAV2813A S-parameter test 100kHz - 8.5GHz	1 Set
2	Power Cord	1 PC
3	USB Cable	1 PC
4	Semi-steel Cable	1 PC
5	3.5mm Torque Wrench	1 PC
6	User Guide	1 PC
7	CD	1 PC

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

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