

## S3600 Series Vector Network Analyzer

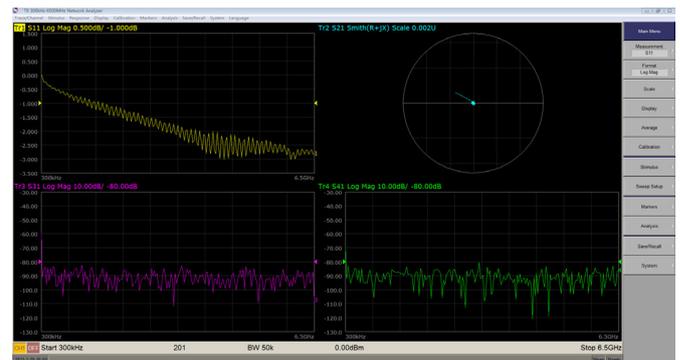
### Overview

The S3600 series vector network analyzer has the performance of a desktop vector network analyzer, with large dynamic range, low trace noise, and high measurement speed. It can meet the testing needs of laboratories, scientific research and teaching, production and manufacturing, system integration and other fields. Covering the frequency range from 300kHz to 20GHz, it is a modular vector network analyzer that is lightweight, portable, and easy to integrate.



### Key features

- Frequency Range : 300kHz~20GHz
- large dynamic range : typ. 120dB @(IFBW=10Hz)
- Low trace noise : 5m dB rms @(IFBW=1kHz)
- Fast measurement speed : 70μs/point @(IFBW=500kHz)



### Product features and applications

- With the performance of desktop network points
- Compact size design, easy to carry
- Open interface allows for secondary development

## Panel description



## Specifications

Measuring range		
Model	S3600-285/S3600-485	S3600-2KU
Impedance	50Ω	50Ω
Port connector	N-type, female	NMD 3.5mm Male
Port number	2/4	2
Frequency range	300kHz ~8.5GHz	1MHz-20GHz
Frequency accuracy	±5ppm	±1ppm
Frequency resolution	1Hz	
Number of measuring points	2~20,001	
Measurement bandwidth	1 Hz to 2MHz	
Dynamic range (IFBW 10Hz)	115 dB, typ. 118 dB (300kHz ~ 10MHz) 125 dB, typ. 130 dB (10MHz ~ 6.5GHz) 123 dB, typ. 128 dB (6.5GHz ~ 8GHz) 115 dB, typ. 120 dB (8GHz ~ 8.5GHz)	115dB,typ.120dB(1MHz~8GHz) 113dB,typ.118dB(8GHz ~18GHz) 110dB,typ.115dB(18GHz ~20GHz)
Equivalent directionality①		
Equivalent directionality	38~49dB	38~44dB
Equivalent source matching	35~41dB	34~36dB
Equivalent load matching	37~49dB	36~42dB
①This specification applies after 40 minutes of power-on warm-up, temperature at 23° C ± 5° C, full dual-port calibration, 0dBm power output, IF bandwidth 10Hz.		
Measurement accuracy		
Reflection measurement accuracy (amplitude)		
-15dB to 0dB	0.4dB	0.6dB
-25dB to -15dB	1.0dB	1.5dB
-35dB to -25dB	3.0dB	4.0dB
Trace stability		
Trace noise (IFBW=3kHz)	2m dB rms	8m dB rms
Temperature stability	0.01dB/°C	
Measurement speed		
Single point measurement time	42μs/point	70μs/point
Test port output		
Port output power range	- 50dBm to + 10dBm (300kHz ~ 7GHz)	-30dBm to +10dBm
	- 50dBm to + 8dBm (7GHz ~ 8.5GHz)	
Power accuracy	±1.5 dB	
Test port input		
Maximum input level	+ 26dBm	
Maximum input voltage	+ 35V	

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Other parameters		
External trigger interface	BNC female, input level range: 0~+5 V	
External reference input interface	BNC female, 10 MHz; 2 dBm ± 2 dB	
External reference output interface	BNC female, 10 MHz; 2 dBm ± 2 dB	
LAN interface	10/100/1000 Base T Ethernet, 8-pin	
Operating temperature	+5° C ~ +40° C	
Stored temperature	-20° C ~ +60° C	
Working humidity	90% (25° C)	
Working atmospheric pressure	84 to 106.7 kPa	
System calibration cycle	3 years	
System power supply	220 ± 22 V (AC) , 50 Hz	
System power consumption	65W	
Dimensions	470×545×105 mm	455mm×275mm×440mm
Net weight	7.5kg (Options 285)	
	8.1kg (Options 485)	
	12kg (Options 2KU)	

## Configuration list

Configuration list	
Model	Description
<b>Main machine</b>	
S3600-285	2-port 300kHz~8.5GHz vector network analyzer
S3600-485	4-port 300kHz~8.5GHz vector network analyzer
S3600-2KU	2-port 1MHz~20GHz vector network analyzer
<b>Calibration kit</b>	
SK-CAL-NM_90	Precision type 9G N type (male) calibration piece T-shaped 4-piece set
SK-CAL-NF_90	Precision type 9G N type (female) calibration piece T-shaped 4-piece set
SK-CAL-SMAM_90	Precision 9G SMA type (male) calibration kit 4-piece set
SK-CAL-SMAF_90	Precision 9G SMA type (female) calibration kit 4-piece set
C85052D	3.5mm precision 50Ω calibration kit 10-piece set 26.5GHz
E285A	2-Port 3.5mm Female Electronic Calibrator 8.5GHz
E285C	2-Port N-Type Female Electronic Calibrator 8.5GHz
E485A	4-Port 3.5mm Female Electronic Calibrator 8.5GHz
E485C	4-Port N-Type Female Electronic Calibrator 8.5GHz
<b>RF test cable</b>	
T5_RFCAB-NmNm_90101	9G Precision 50Ω Type N-N Cable
T5_RFCAB-NmSMAM_90102	9G Precision 50Ω N-SMA Type Cable
T5_35NMD_FM265_60CM	3.5mm Precision 50Ω Test Cable 26.5GHz Female-Male
<b>Other options</b>	
S3600-010	Time domain option
S3600-1F5	Fixture circuit simulation function