





Portable Vector Network Analyzer T5113H/T5231A



Overview

Compared to conventional multiport test scheme of VNA+matrix switch, T5845A supports synchronous test of DUTs. Each DUT has its own test interface to achieve completely parallel operation. Therefore, the "multipurpose" functions of T5845A are achieved without losing stability, accuracy and repeatability.

Key Features

- Frequency Range: 300kHz~1.3GHz/3GHz (T5113A/ T5231A)
- Dynamic Range: >125 dB (IFBW=10 Hz), 130 dB typical
- ullet Low Noise Level: <-120 dB (IFBW=10 Hz)
- Low Trace Noise: 1 mdB rms (IFBW=3 kHz)
- High Measurement Speed: 100 µs/point (IFBW=30 kHz)
- High Effective Directivity: >45 dB
- Remote Control: LAN/GPIB/USB
- Very Low Power Consumption: 40W
- "One-Key-Test" Solution

Measurement Range				
Product Model	T5231A T5113H			
Impedance	50Ω,	75Ω¹		
Test Port Connector	N-type,	female		
Number of Test Ports	2			
Frequency range	300kHz~3.0GHz	300kHz ~ 1.3GHz		
Full CW Frequency Accuracy	±5×10-6			
Frequency Resolution	11	Hz		
Number of Measurement Points	2 ~ 10001	2 ~ 1601		
Measurement Bandwidths	1Hz to 30kHz (in 1 / 1.5 / 2 / 3 / 5 / 7 steps)	1Hz to 30kHz (in 1 / 3 steps)		
Dynamic Range	125dB, typ.130dB			
Measurement Parameters	S11, S21, S12, S22	S11, S21		

¹Use 75 connector via adapter

Effective System Data ¹					
Product Model	T5231A	T5113H			
Effective Directivity	45 dB				
Effective Source Match	40 dB				
Effective Load Match	45 dB	NA			

 $^{^1}$ Applies over the temperature range of 23°C \pm 5°C after 40 minutes of warming-up, with less than 1°C deviation from the full two-port calibration temperature, at output power of -5 dBm and IF bandwidth 10 Hz.

Measurement Accuracy						
Product Model	T5231A T5113H					
Accuracy of Transmission Measurements (magnitude / phase)						
+5dB to +15dB	0.2dB/2° 0.2dB/2° (+10dB to +1					
-50dB to +5dB	0.1dB/1° 0.1dB/1° (-50dB to +1					
-70dB to -50dB	0.2dB/2°					
-90dB to -70dB	1.0dB/6°					
Accuracy of Reflection Measurements (magnitude / phase)						
-15dB to 0dB	0.4dB/3°					
-25dB to -15dB	1.0dB/6° 1.5 dB/7°					
-35dB to -25dB	3.0dB/20	4.0 dB/22°				

Trace stability		
Product Model	T5231A	Т5113Н
Trace Noise Magnitude (IF bandwidth 3 kHz)	1mdB rms	2 mdB rms
Temperature Dependence (per one degree of temperature variation)	0.0	2dB

Measurement Speed								
Product Model		T52	31A		T5113H			
Measurement Time Per Point		125	īms		150 ms			
Source to Receiver Port Switchover Time		< 10ms				NA		
Typical Cycle Times Versus Number of Measurement Points (IFBW 30kHz)	51	51 201 401 1601				201	401	1601
One-Path Two-Port Calibration (300kHz~1.3GHz)		N	Α		9ms	31ms	60ms	235ms
Uncorrected (300kHz~10MHz)	13ms	52ms	104ms	413ms	s NA			
Full Two-Port Calibration (300kHz~10MHz)	46ms	46ms 123ms 226ms 844ms NA						
Uncorrected (10MHz~3GHz/8GHz)	7ms	7ms 27ms 53ms 207ms NA				A		
Full Two-Port Calibration (10MHz~3GHz/8GHz)	34ms	34ms 73ms 125ms 434ms NA				A		

Test Port Output			
Product Model	T5231A T5113H		
Match (W/O System Error Correction)	15dB	20dB	
Power Range			
300kHz~1.3GHz/3GHz/6GHz	-55dBm to +10dBm -55 dBm to +3 dBm		
6GHz~8GHz	N	IA	
Power Accuracy	±1.0dB ±1.5 dB		
Power Resolution	0.05dB		

Test Port Input					
Product Model	T5231A T5113H				
Match (W/O System Error Correction)	25dB 30dB				
Damage Level	+26dBm				
Damage DC Voltage	+35V				
Noise Level (IF Bandwidth 10 Hz)	< -120dBm < -127dBm				

General Data	
Display	10.4 inch TFT color LCD, touch screen
External Trigger Input Connector	BNC female, Input level range: 0 to +5 V
External Reference Input	BNC female; 10 MHz; 2 dBm ± 2 dB (T5231A/T5113H)
External Reference Output	BNC female; 10 MHz; 2 dBm ± 2 dB (T5231A/T5113H)
VGA Video Output	15-pin mini D-Sub; female; driving the VGA compatible monitors
GPIB Connector (Optional)	24-pin D-Sub (type D-24), female; compatible with IEEE-488
USB Connector	Female; provides connection to printer, ECal module, USB storage
LAN Connector	10/100/1000 Base T Ethernet, 8-pin
Operating Temperature Range	+5°C ~ +40°C
Storage Temperature Range	-45°C ~ +55°C
Humidity	90% (25°C)
Atmospheric Pressure	84 to 106.7 kPa
Calibration Interval	3 yr
Power Supply	220 ± 22 V (AC), 50 Hz
Power Consumption	60W
Dimensions (W \times H \times D)	440 ×231 ×360 mm
Weight	7.1 kg (T5231A) / 6.5 kg (T5113H)

About Transcom

Shanghai Transcom Instrument Co., Ltd. (NEEQ: 831961), established in 2005, independently research and develop high-end radio frequency communication testing instruments and is a professional provider of overall testing solutions. Starting from 2009, Transcom, titled as National High-Tech Enterprise and the fostered enterprise by Shanghai Little Giant Project, has undertaken the tasks of development for National "New-Generation Broadband Wireless Mobile Communication Network" and the construction of Shanghai Engineering Research Center for Wireless Communication Testing Instruments.

In 2015, Transcom officially announced its new five-year development strategy "1+3". In detail, Transcom will continue to enhance its potential to be the national team for domestic wireless communication instruments, and develop security software for mobile communication network (network communication/data mining), wireless signal (spectrum monitoring/situation analysis) and Beidou navigation (signal monitoring for satellite navigation/mobile anti-jam verification platform). The strategy has now been implemented systematically with progressive achievements in Shanghai, Guangdong and other cities.

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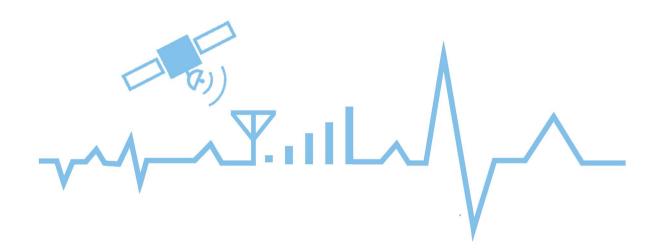
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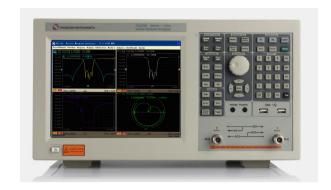
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Vector Network Analyzer T5113A/T5230A/T5280A/T5480A



Overview

Transcom T5000 Series vector network analyzer offers the high RF performance, wide frequency range and versatile functions. The T5000 series is the economic solution for manufacturing and R&D engineers evaluating RF components and circuits for frequency range up to 8GHz.

Key Features

- Frequency Range: 300kHz~1.3GHz/3GHz/8GHz (T5113A/ T5230A/ T5280A) 100kHz~8GHz (T5480)
- 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 µs/point (IFBW=30 kHz)
- High Effective Directivity: >45 dB
- Remote Control: LAN/GPIB/USB
- Very Low Power Consumption: 60W
- "One-Key-Test" Solution

Measurement Range							
Product Model	T5480A	T5280A	T5230A	T5113A			
Impedance	50Ω	50Ω	50Ω, 75Ω¹	50Ω, 75Ω¹			
Test Port Connector		N-type,	female				
Number of Test Ports	4		2				
Frequency range	100kHz~8.0GHz	300kHz~8.0GHz	300kHz ~ 3.0GHz	300kHz~1.3GHz			
Full CW Frequency Accuracy		±5×10-6					
Frequency Resolution		1Hz					
Number of Measurement Points			2 ~ 1601				
Measurement Bandwidths	1Hz t	o 30kHz (in 1 / 1.5 / 2 / 3 / 5 / 7	steps)	1Hz to 30kHz (in 1 / 3 steps)			
Dynamic Range	115 dB, typ. 125 dB (100kHz~300kHz) 135 dB, typ. 140 dB (300kHz~8GHz)		125dB, typ.130dB				
Measurement Parameters	S11, S21, S31, S41, S12, S22, S32, S42, S13, S23, S33, S43, S14, S24, S34, S44	S11, S21, S12, S22	S11, S21, S12, S22	S11, S21			

¹Use 75 connector via adapter

Effective System Data ¹						
Product Model	T5480A	T5280A	T5230A	T5113A		
Effective Directivity	46	45 dB				
Effective Source Match	40	40 dB				
Effective Load Match	46	45	dB	NA		

¹Applies over the temperature range of 23°C ± 5°C after 40 minutes of warming-up, with less than 1°C deviation from the full two-port calibration temperature, at output power of -5 dBm and IF bandwidth 10 Hz

Measurement Accuracy				
Product Model	T5480A	T5280A	T5230A	T5113A
Accuracy of Transmission Measu	urements (magnitude / phase)			
+5dB to +15dB		0.2dB/2°		0.2dB/2° (+10dB to +13dB)
-50dB to +5dB		0.1dB/1°		0.1dB/1° (-50dB to +10dB)
-70dB to -50dB	1.5 dB/10°(100kHz~300kHz) 0.2dB/2°(300kHz~8GHz)		0.2dB/2º	
-90dB to -70dB	1.0dB/6°(300kHz~8GHz)		1.0dB/6°	
Accuracy of Reflection Measurer	ments (magnitude / phase)			
-15dB to 0dB		0.4d	IB/3º	
-25dB to -15dB	1.0dB/6°	1.0d	IB/6°	1.5 dB/7º
-35dB to -25dB	3.0dB/20°	3.0dl	B/20°	4.0 dB/22º
Trace stability				
Trace Noise Magnitude (IF bandwidth 3 kHz)	1mdBrms (100kHz~300kHz) 1mdBrms (300kHz~8GHz)	1mdl	B rms	2 mdB rms
Temperature Dependence (per one degree of temperature variation)	,	0.0	2dB	

Measurement Speed												
Product Model	T5048A T5280A				T5230A			T5113A				
Measurement Time Per Point	100ms			125ms			150 ms					
Source to Receiver Port Switchover Time	< 10ms				< 10ms			NA				
Typical Cycle Times Versus Number of Measurement Points (IFBW 30kHz)	51	201	401	1601	51	201	401	1601	51	201	401	1601
One-Path Two-Port Calibration (300kHz~1.3GHz)				NA					9ms	31ms	60ms	235ms
Uncorrected (300kHz~10MHz)	13.1ms	51.3ms	102.3ms	408.3ms	13ms	52ms	104ms	413ms	NA			
Full Two-Port Calibration (300kHz~10MHz)	45.5ms	122.0ms	230.5ms	840.5ms	46ms	123ms	226ms	844ms	NA			
Uncorrected (10MHz~3GHz/8GHz)	6.5ms	21.1ms	40.5ms	157.7ms	7ms	27ms	53ms	207ms	NA			
Full Two-Port Calibration (10MHz~3GHz/8GHz)	32.4ms	61.7ms	100.3ms	333.0ms	34ms	73ms	125ms	434ms	NA			

Test Port Output					
Product Model	T5480A	T5280A	T5230A	T5113A	
Match (W/O System Error Correction)	18dB		15dB	20dB	
Power Range					
300kHz~1.3GHz/3GHz/6GHz	-60dBm to +10dBm (100kHz~6GHz)	-60dBm to +10dBm	-55dBm to +10dBm	-55 dBm to +3 dBm	
6GHz~8GHz	-60dBm to +5dBm	-60dBm to +5dBm	NA	NA	
Power Accuracy	±1.5 dB	±1.5dB	±1.0dB	±1.5 dB	
Power Resolution	0.05dB				

Test Port Input				
Product Model	T5480A	T5280A	T5230A	T5113A
Match (W/O System Error Correction)	18 dB 25dB 30dB			
Damage Level	+26dBm			
Damage DC Voltage		+3	35V	
Noise Level (IF Bandwidth 10 Hz)	-105dBm(100kHz~300kHz) -125dBm (300kHz~8GHz)	< -125dBm	< -120dBm	< -127dBm

General Data	
Display	10.4 inch TFT color LCD, touch screen
External Trigger Input Connector	BNC female, Input level range: 0 to +5 V
External Reference Input	BNC female; 10 MHz; 2 dBm ± 3 dB (T5480A) BNC female; 10 MHz; 2 dBm ± 2 dB (T5280A/T5230A/T5113A)
External Reference Output	BNC female; 10 MHz; 3 dBm \pm 2 dB (T5480A) BNC female; 10 MHz; 2 dBm \pm 2 dB (T5280A/T5230A/T5113A)
VGA Video Output	15-pin mini D-Sub; female; driving the VGA compatible monitors
GPIB Connector (Optional)	24-pin D-Sub (type D-24), female; compatible with IEEE-488
USB Connector	Female; provides connection to printer, ECal module, USB storage
LAN Connector	10/100/1000 Base T Ethernet, 8-pin
Operating Temperature Range	+5°C ~ +40°C
Storage Temperature Range	-45°C ~ +55°C
Humidity	90% (25°C)
Atmospheric Pressure	84 to 106.7 kPa
Calibration Interval	3 yr
Power Supply	220 ± 22 V (AC), 50 Hz
Power Consumption	60W
Dimensions (W \times H \times D) mm	440 ×231 ×360
Weight	13kg(T5480A) 12.5 kg (T5280A/T5230A) 10kg (T5113A)

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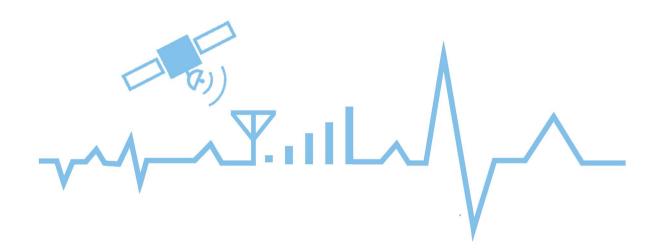
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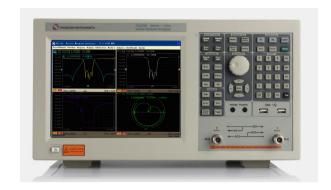
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Overview

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Key Features

- Frequency Range: 300kHz~1.3GHz/3GHz/8GHz (T5113A/ T5230A/ T5280A) 100kHz~8GHz (T5480)
- 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 µs/point (IFBW=30 kHz)
- High Effective Directivity: >45 dB
- Remote Control: LAN/GPIB/USB
- Very Low Power Consumption: 60W
- "One-Key-Test" Solution

Measurement Range				
Product Model	T5480A	T5280A	T5230A	T5113A
Impedance	50Ω	50Ω	50Ω, 75Ω¹	50Ω, 75Ω¹
Test Port Connector		N-type,	female	
Number of Test Ports	4		2	
Frequency range	100kHz~8.0GHz	300kHz~8.0GHz	300kHz ~ 3.0GHz	300kHz~1.3GHz
Full CW Frequency Accuracy	±5×10-6			
Frequency Resolution	1Hz			
Number of Measurement Points	2 ~ 10001 2 ~ 1601			
Measurement Bandwidths	1Hz to 30kHz (in 1 / 1.5 / 2 / 3 / 5 / 7 steps) 1Hz to 30kHz (in 1 / 3 ste			1Hz to 30kHz (in 1 / 3 steps)
Dynamic Range	115 dB, typ. 125 dB (100kHz~300kHz) 135 dB, typ. 140 dB (300kHz~8GHz)		125dB, typ.130dB	
Measurement Parameters	S11, S21, S31, S41, S12, S22, S32, S42, S13, S23, S33, S43, S14, S24, S34, S44	S11, S21, S12, S22	S11, S21, S12, S22	S11, S21

¹Use 75 connector via adapter

Effective System Data ¹				
Product Model	T5480A	T5280A	T5230A	T5113A
Effective Directivity	46		45 dB	
Effective Source Match	40		40 dB	
Effective Load Match	46	45	dB	NA

¹Applies over the temperature range of 23°C ± 5°C after 40 minutes of warming-up, with less than 1°C deviation from the full two-port calibration temperature, at output power of -5 dBm and IF bandwidth 10 Hz

Measurement Accuracy				
Product Model	T5480A	T5280A	T5230A	T5113A
Accuracy of Transmission Measu	urements (magnitude / phase)			
+5dB to +15dB		0.2dB/2°		0.2dB/2° (+10dB to +13dB)
-50dB to +5dB		0.1dB/1°		0.1dB/1° (-50dB to +10dB)
-70dB to -50dB	1.5 dB/10°(100kHz~300kHz) 0.2dB/2°(300kHz~8GHz)		0.2dB/2º	
-90dB to -70dB	1.0dB/6°(300kHz~8GHz)		1.0dB/6°	
Accuracy of Reflection Measurements (magnitude / phase)				
-15dB to 0dB		0.4d	IB/3º	
-25dB to -15dB	1.0dB/6°	1.0d	IB/6°	1.5 dB/7º
-35dB to -25dB	3.0dB/20°	3.0dl	B/20°	4.0 dB/22º
Trace stability				
Trace Noise Magnitude (IF bandwidth 3 kHz)	1mdBrms (100kHz~300kHz) 1mdBrms (300kHz~8GHz)	1mdl	B rms	2 mdB rms
Temperature Dependence (per one degree of temperature variation)	,	0.0	2dB	

Measurement Speed												
Product Model	T50	48A	T528	80A		T5	5230A			T5113A		
Measurement Time Per Point		100)ms		125ms				150 ms	150 ms		
Source to Receiver Port Switchover Time		< 1	0ms			<	10ms		NA			
Typical Cycle Times Versus Number of Measurement Points (IFBW 30kHz)	51	201	401	1601	51	201	401	1601	51	201	401	1601
One-Path Two-Port Calibration (300kHz~1.3GHz)				NA					9ms	31ms	60ms	235ms
Uncorrected (300kHz~10MHz)	13.1ms	51.3ms	102.3ms	408.3ms	13ms	52ms	104ms	413ms	NA			
Full Two-Port Calibration (300kHz~10MHz)	45.5ms	122.0ms	230.5ms	840.5ms	46ms	123ms	226ms	844ms	NA			
Uncorrected (10MHz~3GHz/8GHz)	6.5ms	21.1ms	40.5ms	157.7ms	7ms	27ms	53ms	207ms	NA			
Full Two-Port Calibration (10MHz~3GHz/8GHz)	32.4ms	61.7ms	100.3ms	333.0ms	34ms	73ms	125ms	434ms	NA			

Test Port Output					
Product Model	T5480A	T5280A	T5230A	T5113A	
Match (W/O System Error Correction)	18dB		15dB	20dB	
Power Range					
300kHz~1.3GHz/3GHz/6GHz	-60dBm to +10dBm (100kHz~6GHz)	-60dBm to +10dBm	-55dBm to +10dBm	-55 dBm to +3 dBm	
6GHz~8GHz	-60dBm to +5dBm	-60dBm to +5dBm	NA	NA	
Power Accuracy	±1.5 dB	±1.5dB	±1.0dB	±1.5 dB	
Power Resolution	0.05dB				

Test Port Input				
Product Model	T5480A	T5280A	T5230A	T5113A
Match (W/O System Error Correction)	18 dB 25dB 30dB			
Damage Level	+26dBm			
Damage DC Voltage		+3	35V	
Noise Level (IF Bandwidth 10 Hz)	-105dBm(100kHz~300kHz) -125dBm (300kHz~8GHz)	< -125dBm	< -120dBm	< -127dBm

General Data	
Display	10.4 inch TFT color LCD, touch screen
External Trigger Input Connector	BNC female, Input level range: 0 to +5 V
External Reference Input	BNC female; 10 MHz; 2 dBm ± 3 dB (T5480A) BNC female; 10 MHz; 2 dBm ± 2 dB (T5280A/T5230A/T5113A)
External Reference Output	BNC female; 10 MHz; 3 dBm \pm 2 dB (T5480A) BNC female; 10 MHz; 2 dBm \pm 2 dB (T5280A/T5230A/T5113A)
VGA Video Output	15-pin mini D-Sub; female; driving the VGA compatible monitors
GPIB Connector (Optional)	24-pin D-Sub (type D-24), female; compatible with IEEE-488
USB Connector	Female; provides connection to printer, ECal module, USB storage
LAN Connector	10/100/1000 Base T Ethernet, 8-pin
Operating Temperature Range	+5°C ~ +40°C
Storage Temperature Range	-45°C ~ +55°C
Humidity	90% (25°C)
Atmospheric Pressure	84 to 106.7 kPa
Calibration Interval	3 yr
Power Supply	220 ± 22 V (AC), 50 Hz
Power Consumption	60W
Dimensions (W \times H \times D) mm	440 ×231 ×360
Weight	13kg(T5480A) 12.5 kg (T5280A/T5230A) 10kg (T5113A)

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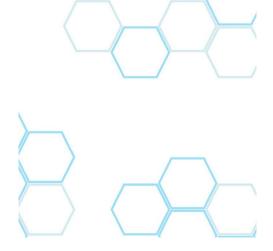


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Compact VNA S5048/S7530/T1300



Overview

The compact VNA is an S-parameter vector network analyzer designed for operation with an external PC. It connects to any Windows-based computer via USB and delivers accurate testing and measurement through a platform that can keep up with constant advancements aswell as be remotely

accessed. This analyzer is an excellent solution for performing the full range of magnitude and phase measurements over the frequency from 20 kHz up to 4.8GHz with 50 and 75Ω version.

Features

- Frequency Range: 20kHz~4.8GHz/20kHz~3GHz/300kHz~
- Large Dynamic Range: >120 dB (IFBW=10 Hz), 123dB typical
- Low Noise Level: <-120 dB (IFBW=10 Hz)
- Low Trace Noise: 2 mdB rms (IFBW=3 kHz)
- Measurement Speed: 150 μs/point (IFBW=30 kHz)
- High Effective directivity: >45 dB
- Remote Controll: LabView
- Low Power Consumption: 12W

Measurement Range					
Product Model	S5048	S7530	T1300		
Impedance	50Ω	75Ω	50Ω		
Test port Connector N-type, female					
Number of Test Ports		2			
Frequency Range	20kHz ~ 4.8GHz	20kHz ~ 3.0GHz	300kHz ~ 1.3GHz		
Full CW Frequency Accuracy		±5×10 ⁻⁶			
Frequency Setting Resolution	10Hz	10Hz	1Hz		
Number of Measurement Points	2 ~ 2	00001	2 ~ 10001		
Measurement Bandwidth	1Hz to 30kHz (in 1 / 1	.5 / 2 / 3 / 5 / 7 steps)	1Hz to 30kHz (in 1 / 3 steps)		
Dynamic Range (IFBW 10Hz)					
20kHz ~300kHz	100dB, typ.110 dB	100dB, typ.110 dB 110dB, ty			
300kHz~1.3GHz/3GHz/4.8GHz	120dB, ty	120dB, typ.123 dB			
S-Parameter	S ₁₁ , S ₂₁ , S ₁₂ , S ₂₂		S ₁₁ , S ₂₁ ,		
Measurement Accuracy					
Product Model	S5048	S7530	T1300		
Measurement Accuracy(magnitude / pha	se)				
+5 dB to +10 dB	0.2d	B/2º	0.2dB/2° (+10dB to +13dB)		
-50 dB to +5 dB	0.1d	B/1º	0.1dB/1° (-50dB to +10dB)		
-70dB to -50dB	2.5dB/11° (20kHz to 300kHz) 0.5 dB/3° (300kHz to 4.8GHz)	1.5 dB/10° (20kHz to 300kHz) 0.2 dB/2° (300kHz to 3GHz)	0.2 dB/2º		
-90dB to -70dB	2.5 dB/11° (300kHz to 4.8GHz)	1.0 dB/6° (300kHz to 3GHz)	1.0 dB/6°		
Accuracy of Reflection Measurements (m	nagnitude / phase)				
-15dB to 0dB	0.4d	B/3º	0.4dB/4°		
-25dB to -15dB	1.0dB/6°		1.5 dB/7°		
-35dB to -25dB	3.0dB/20°		4.0 dB/22°		
Trace Stability					
Trace Noise (IFBW 3kHz)	5 mdB rms (20kHz to 300kHz) 2 mdB rms (300kHz to 4.8GHz)	5 mdB rms (20kHz to 300kHz) 2 mdB rms (300kHz to 3GHz)	2 mdB rms		
Temperature dependence		0.02dB			

Effective System Data ¹	
Effective Directivity	45 dB
Effective source match	40 dB

applies over the temperature range of 73°F ± 9 °F (23°C ± 5 °C) after 40 minutes of warming-up, with less than 1 °C deviation from the one-path two-port calibration temperature, at output power of -5 dBm, and 10 Hz IF bandwidth.*All technical specifications apply to all devices that have been factory calibrated in 2013 and after.

Test Port Output			
Product Model	S5048	S7530	T1300
Match (without system error correction)	22 dB	18 dB	18 dB
Power Range	-50 dBm to +5 dBm	-50 dBm to +5 dBm	-55 dBm to +3 dBm
Power Accuracy	±1.0 dB	±1.5 dB	±1.5 dB
Power Resolution	0.05dB		

Test Port Input			
Product Model	S5048	S7530	T1300
Match (without system error correction)	22 dB	18 dB	28 dB
Damage Level	+23 dBm	+23 dBm	+26 dBm
Damage DC voltage	+35 V	+35 V	+35 V
Noise Level (IF bandwidth 10Hz)	-95 dBm (20kHz to 300kHz)	-105 dBm (20kHz to 300kHz)	-127dBm
	-115 dBm (300kHz to 4.8GHz)	-120 dBm (300kHz to 3GHz)	

General Data	
External Reference Input	BNC female ; 10 MHz; 2 dBm ± 3 dB
External Reference Output	BNC female ; 10 MHz; 3 dBm ± 2 dB
Operating Temperature Range	+5°C ~ +40°C
Storage Temperature Range	-45°C ~ +55°C
Humidity	90% (25°C)
Atmospheric Pressure	84 to 106.7 kPa
Calibration Interval	3 year
Power Supply AC Circuit (via adapter)	220 ± 22 V (AC), 50 Hz
Power Consumption AC Circuit	12W
Dimensions (L x W x H)	267 ×160 ×44(S5048/S7530) 284 ×142×40(T1300)
Weight	1.5 kg

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About Transcom

Shanghai Transcom Instrument Co., Ltd. (NEEQ: 831961), established in 2005, independently research and develop high-end radio frequency communication testing instruments and is a professional provider of overall testing solutions. Starting from 2009, Transcom, titled as National High-Tech Enterprise and the fostered enterprise by Shanghai Little Giant Project, has undertaken the tasks of development for National "New-Generation Broadband Wireless Mobile Communication Network" and the construction of Shanghai Engineering Research Center for Wireless Communication Testing Instruments.

In 2015, Transcom officially announced its new five-year development strategy "1+3". In detail, Transcom will continue to enhance its potential to be the national team for domestic wireless communication instruments, and develop security software for mobile communication network (network communication/data mining), wireless signal (spectrum monitoring/situation analysis) and Beidou navigation (signal monitoring for satellite navigation/mobile anti-jam verification platform). The strategy has now been implemented systematically with progressive achievements in Shanghai, Guangdong and other cities.

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Port Extender Switch for VNA TM SERIES



Overview

TM Series Port Extension Switch (PES) is a high performance multiport instrument which extends T5 Series VNA or any VNA in the market to various numbers of ports. PES is available in 2×3 , 2×8 , 2×9 , 2×10 and 2×12 ports. This instrument provide exceptionally fast measurement and switching speed.

PES contains various features that facilitate test automation. This test set is tailored for testing device with multiport as well as batch testing in the manufacturing environment and it is a very efficient tool for a wide range of R&D multiport measurement applications. We provide customize software as per user requirement.

Typical Application

- LTE Smart Antenna (9-port) Testing
- Multi-band Antenna Testing
- Mobile Handset Antenna (8-port) Testing
- Base station multiport RF Filter, Duplexer and Multiplexer Testing
- Multiport RF Coupler and Splitter Testing

Test Port	
Impedance	50
Connector	N-type, female
Connector	SMA-type, female
Max. Input Power	2 W
Max. Output Power	1 W
Max. Control Voltage	26V DC

Electronics Parameters	
Operating Frequency	DC to 9GHz
Insertion Loss	<4.5dB
Isolation	75dB to 100dB, 85dBTyp.
Port VSWR	1.2 typ.
Control Voltage	24VDC
Control Current	85~125mA
Switch Lifespan	0.1W 100Million cycles
	1.0W 10Million Cycles
Matched Load	Internal matching loads

Matched Load	Internal matching loads
General	
Operating Environment	
Temperature	-15°C to +45°C
Storage Temperature	-15°C to +45°C
Power	220 ± 22 V (AC), 50/60 Hz;70W
Weight and Dimension	
Dimension (W*H*D) mm	438*100*360
Weight	7 kg
Remote Control	
USB	Type B, used for switch control

PES Past Numbers		
Item	Part No.	Discription
1	TM12BS	RSM2x12 SMA full-cross type switch
2	TM12BN	RSM2x12 N full-cross type switch
3	TM10BS	RSM2x10 SMA full-cross type switch
4	TM10BN	RSM2x10 N full-cross type switch
5	TM09BS	RSM2x9 SMA full-cross type switch
6	TM09BN	RSM2x9 N full-cross type switch
7	TM08AS	RSM2x8 SMA semi- cross type switch
8	TM08AN	RSM2x8 N semi- cross type switch
9	TM03AN	RSM2x3 N semi- cross type switch

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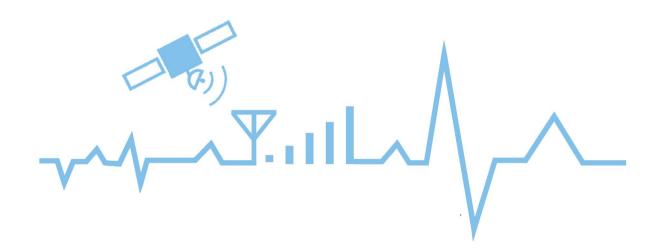
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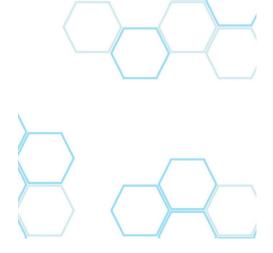


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Compact VNA S5048/S7530/T1300





Overview

Electronic Calibration Module is the precision components and tools required to calibrate a Transcom Vector Network Analyzer. E-cal provide fast, repeatable and high-quality calibration in one step compare to the manual calibration kits which have Open/Short/Load. These reduce the on-site calibration time.

E-Cal module provide consistence result compare to traditional manual calibration. As traditional calibration require multiply connection of OSL. This will increase the calibration error as each time the force applied is not consistence.

Key Features

- Frequency Range:300kHz~8GHz
- Compatible whit CMT software
- Support USBTMC-USB488
- Connect to VNA via USB
- One Time Connection for Two Ports Calibration
- Reduce Wear and Tear

Specifications	
Frequency Range	300kHZ~8GHz
Directivity	46dB
Source Match	-40dB
Load Match	-46dB
Reflection Tracking	0.04dB
Transmission Tracking	0.06dB
Maximum Data Point	1601
Maximum Data Power	-5dBm
Maximum Input Voltage	10V
Input Power Limit	+10dBm
Input Voltage Limit	35V
Size(W*H*D)mm	115 x 40 x 25 mm
Weight	350g

Operation Environment		
Operating Temperature	+5°C to +40°C	
Humility	90% (25°C)	
Pressure	84 ~ 106.7 kPa	

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Hardware Configuration			
Models	Frequency Range	Connector type	
5801N50E-80010	300kHZ~8GHz	N type (male)	N type (female)
5801N50E-80011	300kHZ~8GHz	N type (female)	N type (female)
5801N50E-80012	300kHZ~8GHz	N type (male)	N type (male)
5801S50E-80020	300kHZ~8GHz	SMA type (male)	SMA type (female)
5801S50E-80021	300kHZ~8GHz	SMA type (female)	SMA type (female)
5801S50E-80022	300kHZ~8GHz	SMA type (male)	SMA type (male)

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