

Test More. Test Faster. Test for Less.



DATASHEE T

6GHz Vector Analyzer Adapter

(K6GVNA)

Optimized for Manufacturing Testing A Multiport Vector Network Analayzer

Capable of Simultaneously Measuring All



Multi-Port Component Testing



The small, portable form-factor makes TestPro-K6GVNA easy to integrate in the manufacturing environment. Measuring all possible combinations of RF S-parameters on all ports, K6GVNA greatly reduces test time over other RF test systems. Additionally, multiple test ports eliminate the need of connecting and disconnecting different test fixtures repeatedly. No external RF switch matrix is required, further simplifying the test setup.

VNA Manager is a required companion software utility that facilitates control of the analyzer including cusomization of the Autotest through S-parameter based settings. The system is IP addressable enabling remote view of test data across geographical locations.

While K6GVNA measures multiple S-parameters in every sweep, yet it enables focusing on critical parameters by allowing flexible configuration, and easy-to-understand PASS/FAIL results.

These features make K6GVNA one of the most versatile RF analyzer for the engineers interested in deep-dive, and at the same time fast and easy for the operators.

A large number of test applications can be supported by user configurable parameters and test limits. These are several built-in configurations for widely used test applications such as automotive single-pair Ethernet test.

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Test Setup	ο Works Α	
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Test Center	сс сс	
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Device Connected		E E 325

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KEY CAPABILITIES

- Measurements of multi-port devices under test (up to 4-ports)
- All S-parameter combinations automatically measured during every autotest, with ability to choose parameters of interest
- Adheres to Open Alliance, BroadR-Reach, 802.3bw, 802.3bp and 802.3ch (draft) for the s-parameter and TDR tests:



SPECIFICATIONS

Parameter	Specification
Frequency Range	1-6,000 MHz
Frequency Resolution	1 MHz
Frequency Accuracy	± 2ppm
Test Ports (Single-Ended)	4
IF Bandwidth	100 Hz (Range Setting = 7)
Test Interface	SMA (Female)
Independence of Test Port	50Ω
Test Port Power Output	-1.0 dBm
Max DC voltage at Test Port (Damage Level)	60V
	0.3 msec/step (80 db Noise Floor)
Sweep Speed	3.4 msec/step (110 db Noise Floor)
	105 db @ 1 MHz
	85 db @ 1000 MHz
Measurement Floor - Cross-Talk	50 db @ 3000 MHz
	40 db @ 6000 MHz
	60 db @ 1 MHz
	40 db @ 1000 MHz
Measurement Floor - Return Loss #	15 db @ 3000 MHz
	15 db @ 6000 MHz
	90 db @ 0.1 MHz
	100 db @ 1 MHz
Durania Barras Terraniasian Masananat	100 db @ 100 MHz
Dynamic Range Transmission Measurement	85 dB @ 1000 MHz
	50 dB @ 3000 MHz
	50 dB @ 6000 MHz
	± 0.1 db @ 1 MHz
Accuracy - Transmission Measurements (Regular Sweep Mode) Mid Dynamic Range Measurements	± 0.1 dB @ 100 MHz
	± 0.1 dB @ 600 MHz

SPECIFICATIONS

Parameter	Specification	
Accuracy - Transmission Measurements	± 0.3 dB @ 1000 MHz	
(Regular Sweep Mode) Mid Dynamic Range Measurements	± 0.5 dB @ 6000 MHz	
Accuracy - Reflection Measurements Mid Dynamic Range Measurements	± 0.4 dB	
	40 dB @ 0.1 MHz	
	60 dB @ 1 MHz	
Directivity	60 dB @ 100 MHz	
Directivity	45 dB @ 600 MHz	
	30 dB @ 1000 MHz	
	25 dB @ 6000 MHz	
Tracking Error	0.05 dB (0.1 to 1000 MHz)	
	50 dB @ 1 MHz	
Source Return Loss	40 dB @ 100 MHz	
	20 dB @ 1000 MHz	
	80 dB @ 0.1 MHz	
	80 dB @ 1 MHz	
Insertion Loss Measurement Range-Dual Ended	70 dB@ 100 MHz	
	65 dB @ 1000 MHz	
	40 dB @ 6000 MHz	
File Format for S-Parameter Results	CSV and Touchstone (s8p, s16p)	
	Frequency Domain S-Parameter (Magnitude)	
	Time-Domain Impulse Response (Linear or dB)	
	Time-Domain Step Response (Impedance or dB)	
Plots	Phase v/s Frequency, Real Part v/s Frequency, Imaginary Part v/s Frequency	
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	Power Sum Measurements of Selected Combinations of S-Parameters	
Size	17.5 cm (Depth) x 16.5 cm (Width) x 5.5 cm (Height)	
File Format for S-Parameter Results	CSV and Touchstone (s8p, s16p)	
Weight	1.0 kg	

SPECIFICATIONS

Parameter	Specification
Power Supply	5 V DC Adapter
Power Consumption	8 W
Battery Operation	8 Hours with Full Charge and 1 test/min
Connectivity	USB, 10/100/1000 Ethernet
Operating System	Linux
Operating Temperature	0 °C to 45 °C
Storage Temperature	-50 °C to +70 °C
Humidity	90 % at 25 °C
Atmospheric Pressure	70.0 kPa to 106.7 kPa

Orderable Part Numbers:

K6GVNA-KIT: Kit for 6 GHz VNA testing

6 GHz VNA testing kit comprises of a measurement platform unit, AD-6G-4P-MMVNA adapter, charger, carry case, 4 coax test cords, VNA Manager Pro software site license

AD-6G-4P-MMVNA: Test Adapter for 4-port 6GHz VNA

4-port 6 GHz VNA test adapter that attaches to measurement platform unit.

Contact Us

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