Triarchy

DATASHEET

VSA6G2A/B

USB Vector Spectrum Analyzer

Accurate and stable in frequency / level
Extra low cost, Extra low weight, Best performance to price ratio
Frequency range up to 6.2GHz. Input Levels - 130 dBm to +25 dBm
Connect to PC through USB without needing a battery pack

www.triarchytech.com

The VSA6G2 is a very cost effective USB vector spectrum analyzer. it can do most of the basic test functions a regular sized spectrum analyzer can do. The VSA6G2 is very tiny instrument, but it can cover very wide measurement range.

The frequency up to 6.2G, power up to 24 dBm, noise level low as -130dBm. the test data will be displayed with level, linearity and frequency calibrated.

VSA6G2 is very suitable for field test. because it is very small and easy to be carried. it can be used as device to monitor RF signal. it can also suitable for the EMC test with near field antenna.

Frequency range: low band:1 kHz to1 MHz (usable to 100Hz), high band: 1MHz to 6.2GHz,
Frequency mini setup step: 1Hz
reference clock : Ref clock frequency is 10MHz , Accuracy is 0.3PPM , Ref output is MMXC connector at rear panel
Frequency SPAN: 100Hz to 1.35MHz at FFT mode, 1.35MHz to 6.2GHz at PLL mode with Zero span. Full SPAN sweep time is 600ms.
Resolution bandwidth (RBW): 1Hz to 67KHz at FFT mode, SPAN/RBW=20~100, 10KHz~1MHz (1,2,3,5 sequence) and 10MHz at PLL mode
Video bandwidth(VBW): 3KHz to 750KHz at PLL mode
Detection at PLL mode: Sample, Average, Maximum, Minimum, Nornal.
Sweep time: PLL mode: 200ms~200S, FFT mode: 2ms~20S
Demoduation functions: analog demoduation: AM, FM, PM
digital signal demoduation: I&Q raw data digram, I&Q modified data digram, eye diagram. Consellation.
External I&Q output: output analog I&Q signal with adjustable low pass filter,
VSA6G2A filter Range: 4MHz to 40MHz, it can handle 4MHz ~80MHz signal bandwidth
VSA6G2B filter Range: 40MHz to 120MHz, it can handle 80MHz~240MHz signal bandwidth
output port are 4 pieces of MMXC connectors on side of casing
Amplitude range: -130 to +25 dBm at high band, -90 to 10dBm at low band
Internal attenuator : setup range is 70dB, setup step is 0.25dB
Pre-amplifier : pre- amplifier gain is 20dB, when ref_level less than -30dBm, pro_ amplifier is working, The total amplitude control range will be 90dB.
Display range : defaul setting is 80dB with 10dB Div, Div can be setup to 1~10dB.
Input level overload: The RF input port is DC block, Max DC value added is +/-25V, Max CW RF input measued value is 25dBm, Max RF measued value is 30dBm, signal is pulse signal when value is larger than 25dBm, and average value is less than 25dBm.
Temperature range: working range: -10C to +50C, stored range: -50C~+70C
Power Source: 5V from USB port
Dimensions: 115mm(L) x 25mm(W) x 25mm(H)
Weight: 95g.

- Wireless Remotes, cordless phones, Monitors
- ATE system
- Industrial, Scientific, Medical (ISM)
- Cellular and PCS
- Two-Way Radio Trunk Radio
- Bluetooth, WiFi, WiMax
- Field Service and Installation