



Triarchy Technologies CORP.

Vincit Omnia Veritas

ESA4G1 USB Mini Spectrum Analyzer

ESA4G1 is a very cost-effective USB mini spectrum analyzer. It can do most of all basic test items that a general spectrum analyzer can do. ESA4G1 is a very tiny instrument, but it can cover very wide measurement range. The frequency up to 4.15 GHz, power up to 1 W, noise level as low as -110 dBm. The test data will be displayed with level, linearity and frequency calibrated. ESA4G1 is very suitable for field test because it is very small and convenient to carry. It can be used as a device to monitor RF signal. It is also suitable for EMC test with near field antenna.



ESA4G1 USB Mini Spectrum Analyzer Features:

- Accurate and stable in frequency / level
- Extra low cost, extra low weight, best performance price rate
- Digitally synthesized RF system
- Frequency range up to 4.15 GHz
- Input Levels - 110 dBm to +30 dBm
- Connect to PC through USB without battery pack

Application:

- Wireless Remotes, Cordless Phones, Wireless Monitors
- ATE system
- Education
- Industrial, Scientific, Medical (ISM) Band Application
- Cellular and PCS
- Two-Way Radio, Trunk Radio
- Bluetooth, WiFi, WiMax
- Field Service and Installation



ESA4G1 USB Mini Spectrum Analyzer specifications:

ITEMS	DESCRIPTION
Frequency Range	1 MHz to 4.15 GHz
Minimum Step for Scanning	2 kHz at 1 MHz SPAN
Frequency Stability	< +/-5 ppm with software calibration
Frequency Spans	1 MHz to 1000 MHz
Resolution Bandwidths	50 KHz, 100 KHz, 200 KHz, and 500 KHz, auto setting with Span
Sweep Time	x1 to x32, basic sweep time is around 2.2 seconds
Input Level Range	-110 dBm to +30 dBm
Input Level Overload	Less than +20 dBm for 1 minute max at any scale when external attenuator is not connected. DC block to +/-25 VDC Less than +33 dBm when external attenuator is connected.
Reference Level Accuracy	< 3 dB between 100 MHz to 4.15 GHz at top level (1 GHz)
Display Range Linearity	< 4 dB (1 GHz)
Reference Level Flatness	< 2 dB within 100 MHz span at top level
Reference Level Range	-60 dBm to 0 dBm range without external attenuator -30 dBm to 30 dBm range with external attenuator
Display Range	80 dB usable
Noise Floor	-115 dBm with 5 MHz SPAN and -60 dBm reference level at 1 GHz
Power Source	5 V from USB port
Dimensions	87.5 mm(L) x 23 mm(W) x 15 mm(H)
Weight	Less than 20 g