67-15233 34th AVE Surrey BC V3S 2T7 Canada 604-637-2167

TSA8G1 USB Mini Spectrum Analyzer

TSA8G1 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. TSA8G1 is a very tiny instrument, but it can cover very wide measurement range. It covers frequencies up to 8.15 GHz, powers up to 1 W, noise level as low as -110 dBm. The test data will be displayed with calibrated level, linearity and frequency.

TSA8G1 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 probe.

Remote feature allows the product to be controlled remotely from far end computer via the internet. This allows easy setup of RF monitor system.

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 8.15 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



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SPECIFICATIONS

| ITEMS | DESCRIPTION |
|------------------------------|--|
| Frequency Range | Band1: 1 MHz to 5.35 GHz, Band2: 5.35GHz to 8.15GHz |
| Minimum Step for Scanning | 2 kHz at 1 MHz SPAN |
| Frequency Stability | < +/-5 ppm with software calibration |
| Frequency Spans | 1 MHz to 1000 MHz for normal scanning (501 scanning points) 6 MHz to 600 MHz for fast scanning (250 scanning points) |
| Resolution Bandwidths | 50 KHz, 100 KHz, 200 KHz, and 500 KHz, auto setting and free setting |
| Sweep Time | x1 to x32, basic scanning is around 2.3 s, fast scan is around 0.2 s |
| 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 5.35 GHz at top level (1 GHz) |
| Display Range Linearity | < 4 dB (1 GHz) The linearity calibration is only worked at band1 |
| Reference Level Flatness | < 2 dB within 100 MHz span at top level |
| Reference Level Range | -60 dBm to 0 dBm range without external attenuator for band1 -30 dBm to 30 dBm range with external attenuator for band1 -40 dBm to 20 dBm range without external attenuator for band2 -10 dBm to 30 dBm range with external attenuator for band2 |
| 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. |

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