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Data Sheet

Signal Hound BB60A, Real-Time Spectrum Analyzer/RF Recorder

The BB60A is a high speed spectrum analyzer and a real-time RF recorder. It has 20MHz of real-time bandwidth, tunes from 9kHz to 6.0GHz, collects 80MSamples/second, and streams data to your computer via USB3.0 at 140MB/sec.

Frequency
Range: 9kHz to 6.0GHz
Streaming Digitized IF or I/Q: 20MHz real-time analysis BW
Resolution Bandwidths (RBW): 10Hz to 10MHz
Internal Timebase Accuracy: ±1ppm per year
Sweep Speed (RBW ≥10kHz):
("SW Spur Reject" off) 24GHz/sec
("SW Spur Reject" on) 12GHz/sec

Amplitude (RBW ≤100kHz, IF auto-cal on)
Range: +10dBm to Displayed Average Noise Level (DANL)
Absolute Accuracy: ±2.0dB

Displayed Average Noise Level (DANL) dBm/Hz

9 kHz to 100 kHz	–123
100 kHz to 200 kHz	–132
200 kHz to 300 kHz	–142
300 kHz to 6 GHz	–152

Residual Responses (including 10MHz timebase multiples):
(Ref Level ≤ -50dBm, 0dB Atten) –90 dBm

LO Leakage: –65dBm

Spurious and Image Rejection (-20dBFS into ADC, 0dB Attn, max gain) typical

SW Spur Reject	9kHz to 1.5GHz	1.5GHz to 5.0GHz	5.0GHz to 6.0GHz
Off	-39dBc	-37dBc	-22dBc
On	-39dBc	-46dBc	-48dBc

Phase noise at 1 GHz

Frequency Offset	dBc/Hz
100 Hz	–70
1 kHz	–78
10 kHz	–84
100 kHz	–96
1 MHz	–116

Recommended Computer
Intel i7, 2nd or 3rd generation, quad core processor with two adjacent USB 3.0 ports
Optional RF recording: Sustained 250MB/sec Hard Drive write speed

Synchronization
1-PPS GPS input port enables ±50ns (4 samples) time stamping

Operating Temperature
32°F to 122°F (0°C to 50°C)

Weight
Net, 0.69 lbs. (0.31 kg)

Size
7.63" x 3.19" x 1.19" (194mm x 81mm x 30mm)