

Signal Hound designs and builds powerful, affordable spectrum analyzers and signal generators for engineers, operators and RF professionals around the globe.

EXACTLY WHAT'S NEEDED TO ASSESS EXTERNAL INTERFERENCE, USING AN INTUITIVE INTERFACE - RELIABLE RESULTS.

The BB60C is a high-speed real-time spectrum analyzer and RF recorder, with a tuning range from 9 kHz to 6 GHz. It collects 80 million IF samples per second, and streams I/Q data to a computer via USB 3.0 at 140 MB/sec. This impressive unit offers increased power and performance, enabling concise identification of a targeted weak signal with strong signals nearby. Utilizing I/Q sample rates that allow fine grained control over how much spectrum should be recorded. The BB60C enables undetectable events to be easily detected.

APPLICATIONS

- General Purpose RF Test & Measurement
- EMC pre-compliance
- Phase Noise Characterization
- EVM Measurement
- Channel Characterization
- CCDF
- WiFi Characterization
- Bluetooth Characterization
- Calibration
- Manufacturing Test
- RF Power Measurement
- Demodulation
- Antenna Pattern Measurement

FEATURES

- Up to 24 GHz/sec sweep speed
- 9 kHz to 6 GHz frequency range
- Wide dynamic range from -158 dBm to +10 dBm
- Resolution bandwidths available from 10 Hz to 10 MHz
- 27 MHz instantaneous bandwidth
- Real-time Analysis Features



BB60C Real-Time Spectrum Analyzer

May 2023

Production Specifications

Frequency Range	9 kHz to 6.0 GHz		
Sweep Speed	• 24 GHz/sec		
Displayed Average Noise Level (DANL)	Input Frequency Range	dBm/Hz	
	• 9 kHz to 500 kHz	-140 dBm	
	• 500 kHz to 10 MHz	-154 dBm	
	• 10 MHz to 6 GHz	-158 dBm + 1.1 dB/GHz	
I/Q Acquisition Modes	Calibrated Streaming I/Q: Up to 27 MHz of selectable I/Q streaming bandwidth		
Timebase Accuracy	• ± 1 ppm per year		
Resolution Bandwidths (RBW)	• 10 Hz to 10 MHz		
Amplitude Accuracy	Range: +10 dBm to DANL • ± 2.0 dB (Flatop Windowing)		
Residual Responses REF LEVEL ≤ -30 dBm	Input Frequency Range	Residual Level	Applicable Serial Prefix
	• 500 kHz to 6 GHz	-106 dBm	4119, 4150, 4226, 4296
	• 500 kHz to 6 GHz	-103 dBm	5047 and Higher
Phase Noise at 1 GHz Center Frequency	Offset Frequency	dBc/Hz	
	• 100 Hz	-70	
	• 1 kHz	-76	
	• 10 kHz	-83	
	• 100 kHz	-93	
	• 1 MHz	-117	
Lo Leakage at RF Input	• ≤ -80 dBm		
Spurious Mixer Responses	Input Frequency Range	Spurious Level	
	• 9 kHz to 6 GHz	-50 dBc	
Synchronization	1 PPS GPS input port enables ± 50 ns time stamping		
Operating Temperature	Standard 32°F to 149°F (0°C to +65°C)		
Size and Weight	• 8.63" x 3.19" x 1.19" (219mm x 81mm x 30mm) • 1.10 lbs. (0.50 kg)		
Power Consumption	• 6 Watts (typ)		
Interface	USB 3.0		
System Requirements	Windows or Linux Operating System, x64_86 architecture		

Ordering Options

Standard, Temperature Range 32°F to 149°F (0°C to +65°C)

Option 1, Temperature Range -40°F to 149°F (-40°C to +65°C)

Option 10, External 5V Input (External Power Supply Not Included)