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## Signal Hound Announces SM435B 43.5-GHz High-Performance Spectrum Analyzer

*Combines 110 dB dynamic range, 1 THz sweep speed, and 160 MHz real-time bandwidth with compact form factor for affordable entry to high-end test at \$22,000*

**BATTLE GROUND, Wash.—June 21, 2021—** Signal Hound, a developer of highly optimized solutions for RF signal test and measurement, has announced the SM435B 43.5 GHz RF spectrum analyzer and monitoring receiver. This new product indicates the company's entry into millimeter-wave spectrum analysis. With broad application ranging from 5G cellular, to military, aerospace, and a host of other uses, this next-level production unit expands the company's reach into this next tier of the market.



Signal Hound's new 43.5 GHz spectrum analyzer, the SM435B

“We have taken a big step in the development of the SM435B,” said Bruce Devine, CEO at Signal Hound. “Investment into 50 GHz test equipment, refining layout and design at a higher millimeter wave frequency, and stepping up our PCB technology were all part of bringing this unique product to our market segment. The addition of millimeter wave analysis capabilities with the SM435B further expands the resources available to RF industry professionals.”



As RF analysis and spectrum monitoring needs continue to increase, engineers, production line managers, and technicians need access to robust tools. The affordability of the SM435B opens the door to industry professionals who previously were unable to attain this power in a compact and economical package. “Our competition simply cannot touch this functionality at this price point,” said Clint Burgess, Signal Hound Marketing Director. The performance enhancements, coupled with advanced features found in this exceptional new product, will surprise and excite those who have been waiting for just such an innovation from Signal Hound.

### **Upgraded specifications**

The SM435B tunes from 100 kHz to 43.5 GHz, boasts 160 MHz of instantaneous bandwidth (IBW), a high dynamic range of 110 dB, a sustained sweep speed of 1 THz/s, a built-in sub-octave preselector from 100 kHz to 43.5 GHz, and ultra-low phase noise -- introducing no more than 0.1% error to EVM measurements. This low level of phase noise rivals the most expensive spectrum analyzers on the market. Its system noise figure ranges between 12 dB and 15 dB between 700 MHz and 15.2 GHz.

### **Efficient design**

The minimalist design of the SM435B brings only the essentials, cutting out the cruft and providing a small form-factor that fits seamlessly into a test-bed or production-line scenario. The streamlined and portable design makes it the perfect choice for the bench, the garage or wherever your work takes you. The unit measures 10.45 x 7.2 x 2.15 inches (265 x 183 x 55 mm) and weighs 9.51 lbs. pounds listed (with passive cooling, AC desktop adapter, and power cord).

This next-generation spectrum analyzer and monitoring receiver continues in the Signal Hound tradition of inclusion of a fully-documented API, supporting features such as spectrum sweeping, setting record-on-event triggers, real-time analysis, and 40 MHz of calibrated I/Q streaming data.

Digital signal distribution from the SM435B for high-speed RF signal analysis is possible via an on-board Intel 10AX027 FPGA and an external PC with an Intel Core i7 processor (available USB 3.0 port and 4th Gen processor required). This flexibility gives users the option to scale to any current or future configuration. The unit includes built-in GPS for automatic time and geolocation stamping of the received signals. This analyzer comes paired with Signal Hound’s Spike spectrum analysis software; featuring real-time analysis, WLAN modulation, digital demodulation, and interference hunting measurements, among others.



The SM435B is available for pre-order now, with a U.S. retail price of \$22,000. It can be purchased direct from [Signal Hound](#) or from one of our world-wide [distributors](#). A company-issued PO is required for pre-order. Ship date is mid-October 2021.

### **About Signal Hound**

Signal Hound is a manufacturer of affordable, high-performance test equipment based in Battle Ground, WA. Starting out as Test Equipment Plus in 1996 and offering used test equipment and repair services, Signal Hound expanded its offerings in 2010 with the introduction of the USB-SA44 USB-powered spectrum analyzer. Signal Hound has since added several award-winning RF spectrum analyzers and signal generators, now sold globally.