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Signal Hound Releases the PCR4200 4-Channel Phase Coherent Receiver

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Content

Battle Ground, WA – December 3, 2025 – Signal Hound, a manufacturer of accessible, versatile, precision test equipment, today announced the release of its latest product, the PCR4200. This versatile multi-channel receiver opens new possibilities in signal capture and analysis. It operates from 45 MHz to 20 GHz and delivers the high-performance specifications Signal Hound is known for.

The PCR4200 provides full spectral awareness through a combination of high dynamic range and ultra-fast measurement speeds, allowing users to gain deep insight across wide swept bandwidths. With four independent channels offering powerful analysis capabilities, the PCR4200 performs exceptionally well in complex and diverse signal environments.

The receiver includes the PCR Series API, enabling seamless integration with multiple third-party software applications and expanding its functionality for custom workflows and advanced analysis.

“This multi-channel receiver can be adapted to many uses. It can sweep incredibly fast with independently tuned channels, up to 200 GHz per second, to capture any signal of interest within the bandwidth,” said Justin Crooks, Senior Hardware Engineer at Signal Hound. “Each channel of the PCR4200 can also be configured as a phase coherent channel, making this product extremely versatile. It truly is an all-in-one solution for multi-channel, wide-band spectrum monitoring.”

The PCR4200 aligns with Signal Hound’s ongoing initiative to deliver practical test and measurement tools that provide RF professionals with reliable and accurate solutions to advance their work and research. Like many Signal Hound products, the PCR4200 was designed with direct input from customers, focusing on performance, usability, and real-world requirements.

“We continue to provide the tools users around the world need. Access to quality, feature-rich instruments remains a core commitment at Signal Hound,” said Harrison Osbourn, CEO of Signal Hound. “The PCR4200 fills numerous needs while delivering the performance our customers expect. At just 16 pounds and measuring 12 x 11.5 x 3 inches, this powerful receiver offers precision and portability suitable for the lab, benchtop, or field deployment.”

PCR4200 Applications:

- Simultaneous Multi-Band Spectrum Monitoring
- Multi-Channel Transmitter Testing
- Drone Detection
- SIGINT/COMINT/ELINT

- Emitter Detection and Geolocation
- MIMO channel testing

The PCR4200 is a four-channel, phase coherent receiver operating across a frequency range of 45 MHz to 20 GHz. It streams up to 40 MHz of bandwidth per channel over 10 GbE SFP+ and includes an internal GPS. The receiver operates within a temperature range of 32°F to 122°F (0°C to 50°C), weighs 16.2 pounds (7.34 kg), and measures 12 x 11.5 x 3 inches (304 x 292 x 76 mm), making it suitable for a wide range of operational environments.

For additional information and ordering details, visit the Signal Hound product page.

Supporting Links:

https://signalhound.com/wp-content/uploads/2025/12/PCR4200-press-release_final.pdf

<https://www.signalhound.com/sigdownloads/datasheets/Signal-Hound-PCR4200-Data-Sheet.pdf>

<https://signalhound.com/products/pcr4200-four-channel-phase-coherent-receiver/>

Supporting Videos:

https://youtu.be/czAgnsesmns?si=fBgcxrR-NbOMe_rZ

Tags:

5G, 6G, GNSS, IoT, Military, Radar, RF, Satellite, Signal Integrity, Test & Measurement, Wireless Infrastructure, Wireless Standards

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About Us:

Heading : About Signal Hound

Signal Hound is a manufacturer of accessible, versatile, precision 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. Visit www.signalhound.com for more information.