

Creonic Updates Doppler Channel IP Core with Extended Frequency Band and Sampling Range

Kaiserslautern, Germany – October 02, 2025 – Creonic GmbH, the leading provider of ready-for-use IP cores for communication systems, announces the update of its [Doppler Channel emulation IP core](#). The update introduces significant enhancements that increase flexibility and precision in satellite communication simulations.

The model now supports a wide range of satellite frequency bands, including L, S, C, X, Ku, and Ka bands, allowing engineers to simulate communication links across diverse scenarios with higher realism.

In addition, the sampling frequency range has been expanded to span from 50 kSps up to 500 Gsps. This broad coverage makes the model suitable for both low-rate applications and ultra-high-rate signal processing, providing unmatched versatility for research and development.

These improvements strengthen the Doppler Channel IP core as a robust and scalable tool for the design and validation of next-generation satellite communication systems.

For more information, please visit www.creonic.com or contact sales@creonic.com.

About Creonic

Creonic is the ISO 9001:2015 certified leader in ready-for-use IP cores, offering a rich services and product portfolio for wired, wireless, fiber, and free-space optical communications. Covering essential digital signal processing algorithms such as forward error correction, modulation, equalization, and demodulation, as a preeminent provider, our solutions support industry standards like 3GPP 5G, DVB-S2X, DVB-RCS2, CCSDS, and Wi-Fi. Designed for ASIC and FPGA technologies, Creonic's products meet the highest benchmarks of quality and performance. Trusted by dozens of customers worldwide, from innovative start-ups to global corporations, our IP cores power communications devices and chipsets, satellites, and NewSpace ventures, enabling unparalleled reliability and success in advanced communication systems.

For more information, please visit www.creonic.com.

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