

Creonic Adds oFEC Codec IP Core to Portfolio, Expanding High-Speed Networking Solutions for ASIC and FPGA

Kaiserslautern, Germany – May 21, 2025 – Creonic GmbH, a leading provider of ready-to-use IP cores for ASIC and FPGA applications, announces the release of its new oFEC (Open Forward Error Correction) codec IP core. The solution supports next-generation optical and high-speed communication systems and is now available in both ASIC and FPGA configurations.

With a focus on reliability and flexibility, the new oFEC core is designed for ultra-fast data transmission in infrastructure such as hyperscale data centers, high-performance computing, and advanced transport networks. Up to 800 Gbit/s are achieved on cutting-edge ASIC technology nodes. On FPGA the core delivers up to 10 Gbit/s, providing a robust and scalable option for prototyping applications.

This addition complements Creonic's extensive FEC portfolio and enables seamless integration into systems utilizing LDPC-based standards, including 25G/50G Ethernet, 100G/400G/800G links, and emerging optical transport standards.

Designed for low latency and high energy efficiency, the core supports standard compliance and is ready for integration with streaming or frame-based architectures. Creonic provides full technical documentation and engineering support as part of its ISO 9001:2015-certified development process.

For further details, contact sales@creonic.com or visit www.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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