Wave Photonics' offering now accessible with Siemens' L-Edit Design Tool

Wave Photonics, a member of the Siemens Technology Partner program, has built an integration for L-Edit full custom layout editor to enable users to design photonic integrated circuits using any Wave Photonics-hosted PDK, as well as building in packaging compatibility from the start via access to the QPICPAC turnkey chip packaging solution.

The release of the L-Edit integration will allow users to:

- Rapidly create integrated photonic designs using a drag-and-drop methodology
- Seamlessly incorporate Wave Photonics' pre-designed and expansive component library
- Streamline the process from concept to packaged device

By combining computational design expertise with L-Edit's robust layout tools, Wave Photonics is empowering designers to focus on their core differentiating technologies. The integration is expected to significantly reduce design time and complexity, allowing for faster iteration and optimisation of photonic circuits. This advancement comes at a crucial time as the demand for PICs continues to grow across industries, from telecommunications to quantum technologies.

Currently, this means that L-Edit users can access the CORNERSTONE foundry's PDKs, including those for silicon and silicon nitride, as well as Wave Photonics' proprietary PDK for the CORNERSTONE process. The range of accessible processes will continue to grow as Wave Photonics expands its PDK portfolio.

The instructions for accessing these PDKs can be found here (requires sign-in): https://pdk.wavephotonics.com/dashboard/tutorial?id=3

James Lee, Wave Photonics CEO, said "We're excited to be able to make our components accessible for L-Edit users. Making the components and packaging solutions we've developed accessible through an easy-to-use graphical layout tool significantly reduces the barriers to customers building integrated photonics into their products for the first time."

About Wave Photonics:
Wave Photonics, a Cambridge-based startup founded in 2021, is at the forefront of integrated photonics design. The company leverages computational approaches to accelerate the development and mass production of photonic integrated circuits. By offering optimised designs and streamlined supply chain integration, the company aims to significantly reduce product development time and unlock new possibilities in fields such as healthcare, telecommunications, and advanced computing technologies.

About L-Edit:
L-Edit Photonics, developed by Siemens EDA, is a comprehensive photonics physical design environment that enables rapid creation of photonic integrated circuits (PICs). Based on a widely used layout editor for IC and MEMS design, it offers a drag-and-drop methodology within an IC layout editor, eliminating the need for coding. This tool addresses the unique challenges of photonics design, allowing designers to efficiently create, simulate, and extract netlists for photonic components. By streamlining the design process, L-Edit Photonics contributes to the growing field of integrated photonics, which combines traditional electronic circuits with the ability to manipulate light on a single chip.