Belgian Silicon Photonics Chip Technology



Overview

Discover how Flanders is pioneering Europe's first integrated photonic chip factory with a €200 million investment. A Belgian entrepreneur is set to invest hundreds of millions of euros to establish a cutting-edge photonic chip centre in Flanders, a move expected to bring 500 jobs to the region. The initiative is expected to create around 500 jobs and could put Europe on the map in a. It's been well established that Belgium is a key player in technology, something our country has proven again with the next big thing to happen in the industry. We're talking about chips, and not the edible kind! Oudenaarde (in the province of East Flanders) will be the site of what is to become. The company focuses on integrated photonics development, specifically highlighting its work in silicon photonics and silicon nitride photonics.

Article Content

First European photonics plant boosts Belgian chip

A Belgian entrepreneur is set to invest hundreds of millions of euros to establish a cutting-edge photonic chip centre in Flanders, a move expected to

Flanders Welcomes Europe''s First Photonic Chip Factory

Discover how Flanders is pioneering Europe''s first integrated photonic chip factory with a €200 million investment. Learn how this breakthrough boosts

Former BelGaN site to become Europe''s first ''full

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A Belgian–European entrepreneur is set to establish a state-of-the-art photonic chip hub in Flanders, marking a long-awaited investment of more

Belgium will soon house Europe''s first photonic chip site

Oudenaarde (in the province of East Flanders) will be the site of what is to become “Europe''s first fully-fledged production and service centre for

Top 100 Silicon Photonics Companies in Belgium

Discover all relevant Silicon Photonics Companies in Belgium, including imec and PIC International Conference

Pioneering photonics business to be built on site of

While BelGaN focused on GaN chips, the new company is focusing on integrated photonics. This involves using light particles – photons – instead of

Photonics Research Group

Vacancies PhD: III-V/Si laser frequency combs for data communications PhD: Ultra-low background photonic integrated waveguides for on-chip Raman

200 million euro chip revival in Oudenaarde

The new investor, a recently established Belgian company backed by Singaporean and Cypriot holdings, will focus on producing photonic chips — a

Thema Foundries to establish Europe''s first integrated

A Belgian–European entrepreneur is set to establish a state-of-the-art photonic chip hub in Flanders, marking a long-awaited investment of more

European firm to invest up to €250m in photonic chip production at ...

Established in September 2021, BelGaN acquired what was ON Semiconductor Belgium BV from onsemi in early 2022. The site in Oudenaarde was subsequently transformed from a silicon

First European photonics plant boosts Belgian chip industry

New Photonics will supply cutting-edge laser technology essential for photonic applications, while Ghent University''s renowned photonics research group is also involved. This

Bankrupt Belgian fab pivots toward photonic IC production

The administrators of bankrupt chip manufacturer BelGaN have reached an agreement with an unnamed European investor that could see

Integrated photonics

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Discover imec''s versatile high-performance silicon photonics platform targeting high-speed optical links for data, telecom and sensing applications.

BelGaN''s facility to be repurposed for photonic chip production

The new owner intends to continue chip production at the site but will not pursue GaN technology. “There is a business plan for photonic chip production,” Ali Heerman told the Belga News

Fully-integrated, single-chip microwave photonics

LEUVEN (Belgium), June 5, 2025 — This week, the Photonics Research Group and IDlab, two imec research groups at Ghent University, and imec, a world-leading

Silicon Photonics: A review of main EU and ...

Silicon Photonics: A review of main EU and international activities and technologies Roel Baets Photonics Research Group Ghent University – imec, ePIXfab, Belgium roel.baets@ugent Lisbon,

Silicon Chip is Reconfigurable Optical and Microwave

This single-chip silicon-only electronic/photonic array can be reconfigured to create multiple signal-processing functions.

What are silicon photonics? Why it''s important? and current progress

Silicon photonics technology is a technology that integrates optical components such as laser devices with silicon-based integrated circuits to achieve high-speed data transmission, longer

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