Silicon Photonics Solution Technology Roadmap



Overview

We chart the generational trends in silicon photonics technology, drawing parallels from the generational definitions of CMOS technology.

Article Content

Roadmapping the Next Generation of Silicon Photonics

We chart the generational trends in silicon photonics technology, drawing parallels from the generational definitions of CMOS technology. We identify the crucial challenges that must be solved to make giant

Roadmap on silicon photonics

This roadmap on silicon photonics delves into the different technology and application areas of the field giving an insight into the state-of-the-art as well as current and future challenges faced by

The 2023-2024 IPSR-I Roadmap Document is Now Available

About 400 academic and industrial experts from across the globe, working in the field of integrated photonic technologies and their applications, have come together to create the IPSR-I roadmap.

Silicon Photonics -

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We chart the generational trends in silicon photonics technology, drawing parallels from the generational definitions of CMOS technology. We

Roadmap 2025 042825

A Roadmap for solutions to these boundaries provides early warnings for coordinated research and development of solutions across the manufacturing value chain from critical materials to wafers to

Silicon Photonics in 2024 Integrated Photonic Systems

This tutorial will cover the current state-of-the-art, key building blocks, manufacturing processes, design considerations, and future technology trends for silicon

Leti (english)

TECHNOLOGY SOLUTIONS Sensors Computing Cybersecurity Wireless Communication Networks Power Electronics Image Vision Silicon

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The transmission mechanism is targeted wafer-fab equipment demand in specialty technologies. Silicon photonics, SiGe, embedded memory, FDX, and advanced packaging require

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GTC 2026 Preview! NVIDIA''s Next-Generation Chip Roadmap, CPO Silicon Photonics Technology, and Groq Theoretical Chips Will Be the Focus of

Electronic Chip Package and Co-Packaged Optics

This technology combines advanced photonic and semiconductor integration, offering a more compact, energy-efficient solution for optical

Marvell Announces Acquisition of Polariton Technologies, Advancing ...

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By combining Polariton''s plasmonics technology with Marvell''s existing silicon photonics and DSP capabilities, the company is well positioned to deliver highly integrated, scalable solutions ...

GlobalFoundries Acquires AMF, Expands Silicon

GlobalFoundries (NASDAQ: GFS) announced on November 18, 2025 the acquisition of Advanced Micro Foundry (AMF) in Singapore, creating

NVIDIA''s $4B Photonics Play: Lumentum vs Coherent

NVIDIA is spending $4 billion on silicon photonics through Lumentum and Coherent deals. Here''s which partnership looks stronger heading into 2026.

Credo Technology Group Holding Ltd

Credo Agrees to Acquire DustPhotonics, Accelerating Expansion into Silicon Photonics and Next Generation Optical Connectivity Strategic Rationale The acquisition of DustPhotonics

STMicroelectronics enters high-volume production of its industry ...

In parallel with high-volume PIC100 production, ST is planning to introduce the next step in its silicon photonics technology roadmap: the PIC100 TSV, a new and unique platform that integrates

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