

By targeting 2028, Samsung is openly acknowledging it's behind TSMC's timeline while signaling that photonics, not just traditional chip density improvements, is where the real ...

But despite significant advancements and potential market opportunities, existing manufacturing processes are limiting the scalability and mass production of silicon photonics ...

STMicroelectronics just entered high-volume production of its PIC100 silicon photonics platform -- the manufacturing technology behind the 800G and 1.6T optical modules going into every ...

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 ...

Samsung Electronics plans to mass-produce silicon photonics starting from 2028, a move that could reshape global data-center networking, AI hardware integration, and foundry ...

Samsung Electronics unveiled its silicon photonics foundry platform development progress and mass production roadmap at the Optical Fiber Communication Conference (OFC) 2026 ...

The 800G and 1.6T PIC100 transceivers enable higher bandwidth, lower latency, and greater energy efficiency as AI workloads surge. "Following the announcement of its new silicon ...

To cross the final mile from prototype to mass production, silicon-photonics platforms need more than strong designs--they need fast, evidence-based verification that exposes failures ...

TSMC is moving its silicon photonics platform Coupe from development into mass production this year, the firm announced at a Semi meeting (via Commercial Times).

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