

Saudi Arabia offers 800G silicon photonics technology



Overview

Riyadh, Saudi Arabia, March, 2024: In a groundbreaking development, stc Group, the leading operator in Saudi Arabia, has partnered with Huawei to complete the MENA region's first-ever long-haul 800G/channel trial in its live optical network. Bright Wires specializes in telecommunications, offering services like fiber optic splicing and testing, which are essential for the advancement of silicon photonics technology. Please check our recent review. The Photonics Laboratory aims at delivering compact and energy-saving integrated laser-diode based devices and solutions for applications requiring light spanning the ultraviolet to the visible and near-infrared regime. A plethora of practical laser-based solutions are conceived, and. On March 2, 2023, at 13:43, SiFotonics, one of the world's leading companies in silicon photonics technology, announced today the launch of 800G low-power-consumption silicon photonics solutions for data centers and AI/ML applications. The 800G optical transceiver unit adopts the silicon photonics.



Article Content

Apr 17, 2026

Saudi Arabia Silicon Photonics Market | Trends & Outlook 2031

The Saudi Arabia Silicon Photonics Market Outlook report provides an unbiased and detailed analysis of the ongoing Saudi Arabia Silicon Photonics Market trends, opportunities/high growth areas, and

Jan 13, 2026

FAST Photonics offers next generation 400/800G transceivers

FAST Photonics Technologies, Shenzhen, China, has announced plans to develop and manufacture high-speed optical transceiver products based on Intel's Silicon Photonics Technology.

Aug 28, 2025

Saudi Arabia Silicon Photonics Market Growth Analysis

This report provides a detailed analysis of several leading market vendors in Saudi Arabia, and includes information on upcoming trends and

Jul 12, 2025

Optical Module Chip Market 2025

Which region dominates the market? -> Asia-Pacific is the largest market, driven by China's rapid telecom infrastructure development. What are the emerging trends? -> Emerging trends include

Jan 06, 2026

Credo Agrees to Acquire DustPhotonics, Accelerating Expansion into ...

DustPhotonics has developed a differentiated portfolio of SiPho PICs spanning 400G, 800G, and 1.6T, with a roadmap extending to 3.2T, that integrates key optical functions onto a single

Apr 13, 2026

stc Group and Huawei Achieve Milestone in Optical

This successful trial, spanning over 1,000 kilometers from Riyadh to Makkah, marks a significant advancement in optical network technology,

Jul 22, 2025

14 companies for Silicon Photonics in Saudi Arabia

The Silicon Photonics industry in Saudi Arabia presents a unique landscape shaped by various factors. Key considerations include understanding the regulatory environment, which is evolving as the

May 27, 2026

Saudi Arabia Silicon Photonics Market Growth Analysis

Similarly, in the defense sector, Silicon Photonics plays a crucial role in developing next-generation communication systems, surveillance technologies,

Jul 24, 2025

800g-silicon-photonics-transceivers-powering-ai-and

In the ever-evolving technological landscape, 800G silicon photonics transceivers have emerged as a cornerstone for advanced AI applications, cloud

Aug 28, 2025

Kaust Photonics Lab

The Photonics Laboratory aims at delivering compact and energy-saving integrated laser-diode based devices and solutions for applications requiring light spanning

Jul 07, 2025

SiLUX Technologies Teams Up with Source Photonics to Launch its 800G ...

SiLUX also offers optical engines/solutions to customers with leading edge technologies both on chip's performance and ease of packaging. The solutions will enable customer to develop silicon photonics

Jul 19, 2025

800G Silicon Photonics Chip | DustPhotonics Ltd. | Oct 2023 | Photonics ...

MODI"IN, Israel, Oct. 3, 2023 — The 800G PIC from DustPhotonics is a merchant single-chip 800G photonic integrated circuit for DR8 and DR8+ applications. Providing eight optical channels

Aug 05, 2025

Active Optical Module Market 2025

Technological convergence is creating additional avenues for innovation: Emerging silicon photonics platforms are enabling new levels of integration between optical and electronic components,

Apr 07, 2026

SiFotonics

Currently, SiFotonics offers the widest range of silicon photonics product portfolio solutions, covering all the silicon photonics chips and corresponding opto-mechanical designs

Mar 22, 2026

Integrated Photonics Lab | Integrated Photonics Lab

Leveraging state-of-the-art nanofabrication technology and interdisciplinary cooperation, we develop photonic integrated circuits

Oct 06, 2025

Saudi Arabia Silicon Photonic Device Market

The analysis is structured to be adaptable to any Saudi Arabia Silicon Photonic Device Market while providing actionable, region-specific insights.

Apr 01, 2026

Source Photonics licenses Intel 800G transceiver designs

Source Photonics and Intel have signed a licensing agreement that allows Source Photonics to utilise Intel's 800G transceiver designs, including Intel's silicon photonics chipset, to

Nov 16, 2025

Optical Transceiver Market Size, Share, Industry Report

Co-packaged optics development initiatives. Challenges Thermal management complexity in dense racks. High 800G module power consumption. Opportunity

Sep 23, 2025

Market Insights: 800G & 1.6T Silicon Photonics Optical

This article answers key questions about 800G and 1.6T silicon photonics optical transceivers, covering chip architecture, packaging differences

Nov 25, 2025

Pluggable Optical Module Market Research Report 2034

Furthermore, the co-packaged optics (CPO) and silicon photonics revolution, spearheaded by technology giants such as Intel and Broadcom, is reshaping the competitive landscape by enabling

Nov 17, 2025

Top 14 Silicon Photonics Companies in Saudi Arabia (2026) | ensun

The Silicon Photonics industry in Saudi Arabia presents a unique landscape shaped by various factors. Key considerations include understanding the regulatory environment, which is evolving as the

Jun 26, 2025

First commercial 800G silicon photonics chip

DustPhotonics has announced the industry's first merchant single-chip 800G DR8 PIC (Photonic Integrated Circuit) suitable for DR8 and DR8+

Jul 15, 2025

Stc Completes Long-Haul 800G Live Network Trial

Saudi Arabia's STC Group has partnered with Huawei to complete the MENA region's first-ever long-haul 800G per channel trial in a live optical network.

Jun 11, 2026

The Emerging Era of 800G Transceivers in Data

An optical module in the traditional sense refers to a device that encompasses various discrete components, including III-V semiconductor chips,

Feb 25, 2026

Optical Modules Market Research Report 2034

Silicon Photonics Adoption and Cost Reduction Dynamics Silicon photonics technology is fundamentally reshaping the cost and integration landscape of

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