

AWS chip optical module



Overview

Dubbed the PIC100, STMicroelectronics said the chip will support incoming 800Gbps and 1.6Tbps optical interconnects across all workloads, including artificial intelligence (AI). Developing a roadmap with partners across the value chain for higher energy efficiency pluggable optics and to address the next generation of. On February 20, STMicroelectronics (ST) announced the launch of a new computer chip targeting the rapidly growing AI data center equipment market. As part of the “Stargate” initiative, top U. software companies plan to invest. When you stream a movie, make an online purchase, or use a cloud-based application, your data travels across vast networks of fiber optic cables spanning cities, countries, and continents. At the core, everything still depends on the optical transceiver, which converts terabit electrical signals into low-loss photons at far lower energy. Links can carry 100-200 Gb/s on a single lane, hike symbol.



Article Content

Jul 19, 2025

STMicroelectronics Unveils New Data Center Photonics

STMicroelectronics has launched a new data center photonics chip, developed in collaboration with Amazon Web Services (AWS). The PIC100 chip

Nov 04, 2025

STMicro, AWS co-develop AI-focused photonic chip for data centers

STMicroelectronics (STM) is partnering with Amazon Web Services (AWS) to develop a data center photonic chip that delivers 800Gbps and 1.6Tbps optical interconnect speeds for AI and...

Jun 13, 2026

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Jun 23, 2026

Amazon : Electronics

Explore a wide range of electronics including streaming devices, headphones, chargers, and smart home gadgets. Find quality products for every need.

Dec 22, 2025

ITPro Today, Network Computing, IoT World Today combine

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

Apr 13, 2026

Optical modules | ams OSRAM

Unsere Hochleistungs-LEDs und Fotodioden werden in optische Frontend-Module von ams OSRAM integriert. Diese sind entsprechend der Signalstärke mit ausreichender optischer Isolierung

May 18, 2026

WORLD WIDE WEB JOURNAL Home

O'Reilly & Associates, Inc. 103A Morris St. Sebastopol, CA United States

Nov 29, 2025

How AI Revolutionizes the Optical Module Industry

AI-driven demand fuels global optical module industry growth, with Chinese firms leading innovation and market share expansion.

Oct 08, 2025

Cisco Digital CFP2-DCO Coherent Optical Module Data

Cisco offers a comprehensive range of pluggable optical modules in the Cisco ONS pluggables portfolio. The wide variety of modules gives you flexible

Nov 22, 2025

\$SIVE \$LWLG \$POET The AI infrastructure supply chain is evolving

The foundry has already integrated LWLG's polymer process into its silicon photonics PDK, enabling scalable manufacturing of next-generation optical engines on 8-inch wafers. [Sivers](#)

Dec 19, 2025

Broadcom Sian3 and Sian2M: 200G/lane optical

Analyzing Broadcom's Sian3 and Sian2M 200G/lane DSP technologies. Sian3 (3nm/SMF) and Sian2M (5nm/MMF) support 800G and 1.6T

Aug 31, 2025

STMicroelectronics Partners with Amazon to

On February 20, STMicroelectronics (ST) announced the launch of a new computer chip targeting the rapidly growing AI data center equipment

Aug 16, 2025

Optical Communication Industry Trends 2026: AI, 800G/1.6T Optical ...

Explore optical communication industry trends in 2026, driven by AI infrastructure, 800G and 1.6T optical modules, silicon photonics, and next-generation data center connectivity solutions.

Oct 15, 2025

STMicroelectronics Partners with Amazon to

STMicroelectronics will mass-produce the chip at its factory in Crolles, France. [Frais](#) also noted that the company is working with leading optical

May 22, 2026

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Our purpose: Make the world more sustainable by building trust in society through innovation.

May 24, 2026

ST Makes Its Foray Into Silicon Photonic ICs for Data

According to the company, integrating silicon photonics with BiCMOS enables a direct, high-performance electro-optical conversion process for next

Feb 27, 2026

Optical Transceiver: 400G, 800G, 1.6T and the Leap to

That helps decrease the electrical bottleneck between chip and optics. Silicon photonics integration brings modulators, lasers, and DSP on one

Jul 05, 2025

A Comprehensive Guide to Optical Chips

Optical chips, typically referred to as photonic chips, use light waves (electromagnetic waves) as carriers for information transmission or data processing. These chips rely on integrated

Jan 16, 2026

STMicroelectronics unveils new data center photonics

STMicroelectronics said the offering will enable customers to integrate multiple complex components on a single chip whilst providing ultra-high

Jun 28, 2025

STMicroelectronics and AWS partner on AI-focused data center chip

“AWS is pleased to collaborate with STMicroelectronics to develop a new silicon photonics technology (SiPho), PIC100, that will enable interconnection between any workload

Jun 16, 2026

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Dec 18, 2025

How a new AWS optical network solution delivers

Rather than simply purchasing complete systems from traditional vendors, we took a different approach: combining specialized optical modules

Jun 09, 2026

Intel Demonstrates First Fully Integrated Optical I/O Chiplet

Intel Corporation's Integrated Photonics Solutions (IPS) Group has demonstrated the industry's first fully integrated bidirectional optical compute

Aug 30, 2025

Silicon Photonics in Pluggable Optics White Paper

Example of a silicon photonics based 100-Gbps optical module Benefits of silicon photonics Manufacturing efficiency and automation Reduction

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.piano-lessons.co.za>

Email: info@piano-lessons.co.za

Phone: +31 6 37258914

Address: Herengracht 123, 1015 BT Amsterdam, Netherlands

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