

# Canadian Silicon Photonics Technology SFP



## Overview

, Ltd announced 100G-ER1-40 SFP112 optical transceivers, providing a lowest power and highest density solution for new generation switch and router applications for 5G backhaul, telecom service aggregation and cloud data center interconnects (DCIs). SiFotonics Technologies Co. May 4, 2026 - Ottawa, Ontario Today, the Honourable Mélanie Joly, Minister of Industry and Minister responsible for Canada Economic Development for Quebec Regions, announced that work will begin to spin off the National Research Council of Canada (NRC)'s Canadian Photonics Fabrication Centre (CPFC). The NRC's Canadian Photonics Fabrication Centre is the only facility of its kind in North America. " Industry Minister Mélanie. As data centers expand, 5G and edge networks mature, and AI workloads multiply, the small form-factor pluggable (SFP) optical transceiver — once seen as a modest workhorse — is stepping back into the spotlight. The CPFC is a 40,000-square-foot facility with 11,000 square feet of clean room space. Its. From gigabit Ethernet to 800G AI data center backbones — discover how SFP technology has evolved into the most critical component in global connectivity infrastructure.



## Article Content

SiFotonics Announced Industry First 100G Extended Reach SFP112 ...

Industry first small form-factor pluggable (SFP) transceiver supporting 100G extended reach with 100Gbps serial electrical interface. Industry leading DSP supporting multi-rate Ethernet or ...

Ottawa plans to spin off federal semiconductor facility into ...

The federal government is working on spinning out the National Research Council of Canada's (NRC) Canadian Photonics Fabrication Centre (CPFC) into a "commercial entity." Industry ...

Advancing Canada's capacity in photonic semiconductors and AI ...

The NRC's Canadian Photonics Fabrication Centre is the only end-to-end pure play compound semiconductor facility in North America and is critical to the semiconductor laser supply ...

SFP Optical Transceiver Launch Strategies: Defining the New ...

In 2025, SFP optical transceivers redefine performance with intelligence, efficiency, and resilience—powering smarter, greener, and more reliable optical networks worldwide.

Government of Canada announces significant investment in the ...

This will help the Canadian semiconductor industry enhance its role in the integrated North American information and communications technology supply chain.

Fabrication

His current research focuses on integrated photonic devices and systems, involving silicon photonics, nanophotonics, CMOS-photonics co-design, high-speed optical communications, and optical sensors.

Future spin-off of the NRC's Canadian Photonics Fabrication Centre

The National Research Council of Canada (NRC)'s Canadian Photonics Fabrication Centre (CPFC) is the only end-to-end pure play compound semiconductor facility in North America.

Fabrication

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Ottawa looking to sell a stake in photonics centre to attract private ...

The federal government's plan to sell a stake in the Canadian Photonics Fabrication Centre is aimed at creating a scaled-up hub for semiconductor production and AI technology, says Industry ...

SFP Optical Transceivers: How Pluggable Optics Are Reshaping ...

10. Future Outlook: CPO, Silicon Photonics, and the Post-SFP Era While pluggable SFP modules will dominate the access and enterprise market for the foreseeable future, the hyperscale ...

Canada will spin out its photonics factory to chase the AI opportunity

The federal government will privatize a publicly owned semiconductor plant that technology executives and investors say could be key to Canada's AI hardware ambitions. Industry Minister ...

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