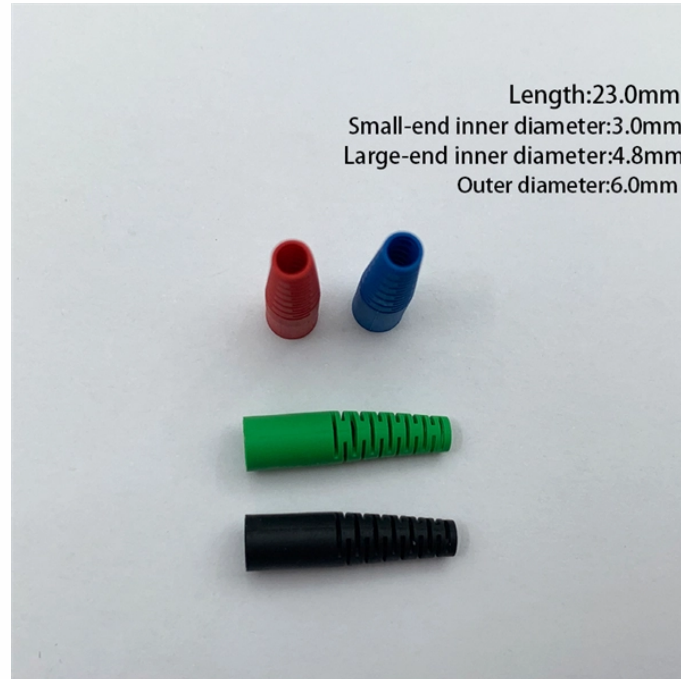


# Latvian Cost-Effective Silicon Photonics Technology 40G



## Overview

In this paper, we report record optical-amplification free performance using our designed silicon photonics C + L band and O band ring-resonator modulators suitable for high energy-efficiency optical interconnects. Latvian deep tech company AP4PIC is creating polymer-integrated photonic microchips, including designing and developing microchip components. Simply put, these are microchips that use light instead of electrical signals to process. GIGALIGHT provides the smart box tools for online coding of SFP, XFP, SFP+, QSFP+, and QSFP28 optics, as well as wavelength tuning for 10G tunable XFP/SFP+ optical transceivers. GIGALIGHT provides a series of BER testing tools (checker) for 10G SFP+, 25G/32GFC SFP28, 40G QSFP+, 100G QSFP28, 200G. 2021 - 2023, European Regional Development project No. 1/20/A/076 "Technology for the high precision time-amplitude event flow analyses" (coordinator - R. Coordinator - Institute of Electronics and Computer Science. 8 million euros will be available for research and innovation projects in biomedical sciences, medical technologies, pharmaceuticals, photonics, smart materials, electronics, electrical engineering, and engineering systems until the end of 2026. This funding is provided.

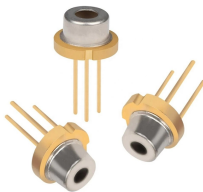
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Enabling complex optical functionality on a compact chip at low cost A typical silicon photonics platform: Imec's iSiPP200N technology RB1 Diapositive 9 RB1



State budget funding of 12.8 million euros will be available for research and innovation projects in biomedical sciences, medical technologies, pharmaceuticals, photonics, smart materials,...



In December 2022, 12 partners from academia, industry and the public sector signed a Memorandum of Understanding (MoU), solidifying a commitment to developing semiconductor manufacturing capabil ...



Latvian deep tech company AP4PIC is creating polymer-integrated photonic microchips, including designing and developing microchip components. These systems use organic materials ...



Photonics research in Latvia is fragmented among multiple research organizations with no strategic direction or coordination. As a result, despite impressive capabilities the economic impact of the ...



In this paper, we report record optical-amplification free performance using our designed silicon photonics C + L band and O band ring-resonator modulators suitable for high energy-efficiency ...



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Optical Transceiver Adapters The GIGALIGHT 100G CFP to QSFP28 adapter, 100G CFP2 to QSFP28 adapter, and 40G QSFP+ to 10G SFP+ adapter provide a cost-effective solution for the upgrade of ...



2020 - 2022, Latvian Council of Science Fundamental and Applied research project No. Lzp-2019/1-0280 "Development of novel methods for coherent control of atomic energy levels beyond the limit of ...

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

Website: <https://yoahorroenergia.es>

Email: [hello@yoahorroenergia.es](mailto:hello@yoahorroenergia.es)

Phone: +233 54 318 7269

Address: Plot 28, Spintex Road, Accra, Greater Accra, Ghana

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