



Adam Tas Corridor Energy

Latvian Silicon Photonics Technology NRZ





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First Real-Time 100-Gb/s NRZ-OOK Transmission over

The book discusses the basics of heterostructure-based silicon photonics, system layouts, and key device components, keeping in mind the

Silicon photonics platform enhanced to support NRZ optical lane rates

The results expand imec's iSiPP device portfolio to support 50Gb/s non-return-to-zero (NRZ) lane rates and are an important milestone for the realisation of high data rate silicon integrated



State funds 12.8m euros for biomedical and photonics

Thanks to financial support, the development of these ideas will be promoted, and in the long term, competitive, market-demanded technologies and

Spotlight on Latvian Photonics Research Center

Materize is a Latvia-based research center



providing R& D, prototyping and industrialisation services in the fields of photonics, sensors, spectroscopy, thin films, and coatings.



PHOTONICS & SMART MATERIALS

Customized solutions in fibre optic technology. From individual fibre to ready-to-use cable assemblies. Precision-made solutions in-house, from preform manufacturing to finished cables and bundles.

AFTER

This paper describes a fully integrated 2 channel 40 to 56 Gb/s NRZ 1310 nm duplex single mode fiber (SMF) optical link using transmit and receive optical devices in STMicroelectronics PIC25G silicon



Smart Materials, Photonics, Technologies and Engineering

New methods, technologies and product prototypes with high commercialization potential in the field of photonics, microfluidics, smart materials, and IoT/Robotics will be created as a result of this Project



Active Components for 50 Gb/s NRZ- OOK Optical Interconnects in a

We present active components developed in imec's silicon photonics platform that enable 50-Gb/s non-return-to-zero operation using CMOS compatible voltages.



"Baltic Photonics"

The entry of such a company into Latvia is a strategically important step both in terms of investment attraction and economic contribution, as well as in the context of the geopolitical situation

Hybrid Silicon Photonic Circuits and Transceiver for 50 Gb/s NRZ

This paper presents a 50 Gb/s per lane hybrid BiCMOS and silicon photonic integrated circuit for use in fiber optic communications. Fine pitch copper pillars are used to integrate electronics

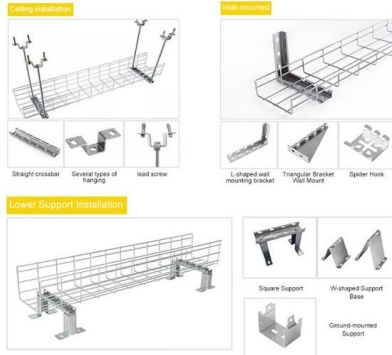


Silicon Photonics for 56G NRZ Optical Interconnects

We discuss recent progress in the performance of modulators and photodetectors co-integrated in a silicon photonics platform, and capable of operation in the O-band or C-band at 56Gb/s single-lane



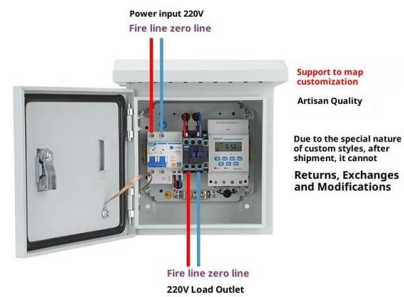
INSTALLATION METHOD



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Materize is a Latvia-based research center providing R& D, prototyping and industrialisation services in the fields of photonics, sensors, spectroscopy, thin films, and coatings. Jose Pozo, the CTO of EPIC,

Product Wiring Diagram



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Faculty of Computer Science, Information Technology and Energy

Explore LZP funded research projects focused on optical neural networks, polymer photonics, chaotic energy transfer, and more. Discover cutting-edge innovations.





Silicon photonics for high-speed communications and photonic signal

Leveraging on the mature processing infrastructure of silicon microelectronics, silicon photonic integrated circuits may be readily scaled to large volume production for low-cost high

Riga Photonics Centre , Photonics driving economic growth in Latvia

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



12.8 Million Euros Available for Researchers to Develop Innovative

The first call is expected in February 2025, inviting researchers to apply for funding to develop new technologies and innovative ideas in biomedical sciences, medical technologies,

12.8 Million Euros Available for Researchers to Develop Innovative

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,



RTU Develops Nanophotonics, A New Research Area That Underpins

Discover RTU's new Nanophotonics Laboratory! Researching light-matter interactions at the nanoscale for future communication technologies, including quantum systems and microchip innovation.



Silicon Photonics Platform for 50G Optical Interconnects

IMEC'S SILICON PHOTONICS PLATFORM 50G SILICON PHOTONIC INTEGRATED CIRCUIT TECHNOLOGY Co-integration of high performance 50G active and passive blocks in a single



Polymer Integrated Photonics Technology for Energy

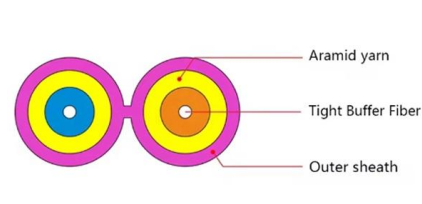
The Latvian deep-tech company AP4PIC is developing polymer-integrated photonic microchips, including the design and fabrication of microchip





Smart Materials, Photonics, Technologies and Engineering

Project summary: The Project "Smart Materials, Photonics, Technologies and Engineering Ecosystems" is establishing a co-creation research ecosystem to foster development in RIS3 sector of photonics,



Roadmapping the next generation of silicon photonics

What will the next generation of silicon photonics look like? What are the common threads in the integration and fabrication bottlenecks that silicon

Scientists combine forces to innovate in photonics, smart materials

Latvian research institutes and universities are building a co-creation research ecosystem to commercialise scientific results in photonics, smart materials, microfluidics, robotics,



Spotlight on Latvian Photonics Research Center

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Smart materials & photonics

Discover Latvia's pioneering research in smart materials and photonics, leading innovations in advanced materials and light-based technologies.



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