

FRAUNHOFER HEINRICH HERTZ INSTITUTE

PRESS RELEASE

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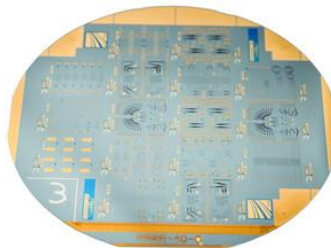
Fraunhofer HHI at micro photonics in Berlin, October 11-13, 2016

At this year's micro photonics, the Fraunhofer Heinrich Hertz Institute HHI presents its latest solutions in the area of photonic components.

You find the following highlights at our Booth 207 in Hall 7.2C:

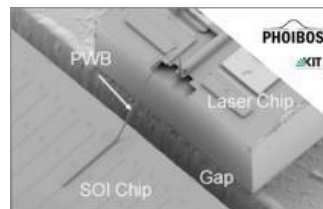
InP Foundry Services – Photonic Integration Toolbox

Fraunhofer HHI enables an own design of InP-based Photonic Integrated Circuit (PIC) containing passive and active devices on one substrate. It is possible to choose from a range of proven building blocks, such as 40 GHz receivers, 20 GHz transmitters, and 1 dB/cm passive waveguides. Low-cost multi-project-wafer-run-based PICs are already commercially available through Jeppix and customer-specific private runs can be realized on demand. Dedicated design and layout software is provided, and several packaging partners are available.



InP Lasers for Integration into Silicon Photonics – Optical Sources for Si-Photonics

Fraunhofer HHI provides DFB lasers, gain chips and SOAs with flip chip capability for hybrid integration on Si-Platforms. Single devices and arrays are offered for lateral and vertical coupling schemes. InGaAsP and InGaAlAs are used as active MQW layer and operating wavelengths range from 1270 nm to 1650 nm.



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PolyBoard Foundry Services

The PolyBoard integration platform allows for rapid prototyping, short iteration cycles and low upfront development effort. Fraunhofer HHI's technology allows the integration of on-chip free space elements, 3D structures, graphene electro-absorption modulators, as well as other optical functionalities such as switches, variable optical attenuators, and tunable lasers.



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Innovations for the digital society of the future are the focus of research and development work at the **Fraunhofer Heinrich Hertz Institute HHI**. In this area, Fraunhofer HHI is a world leader in the development for mobile and optical communication networks and systems as well as processing and coding of video signals. Together with international partners from research and industry, Fraunhofer HHI works in the whole spectrum of digital infrastructure – from fundamental research to the development of prototypes and solutions. www.hhi.fraunhofer.de

The Fraunhofer-Gesellschaft is the leading organization for applied research in Europe. Its research activities are conducted by 67 institutes and research units at locations throughout Germany. The Fraunhofer-Gesellschaft employs a staff of 24,000, who work with an annual research budget totaling more than 2.1 billion euros. Of this sum, more than 1.8 billion euros is generated through contract research. More than 70 percent of the Fraunhofer-Gesellschaft's contract research revenue is derived from contracts with industry and from publicly financed research projects. Branches in Europe, the Americas and Asia serve to promote international cooperation.

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