

PRESS RELEASE

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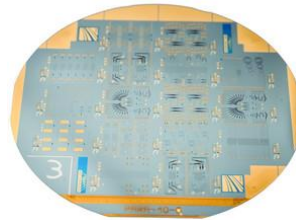
Fraunhofer HHI at ECOC in Gothenburg

At ECOC 2017 Fraunhofer HHI presents the latest developments in Photonic Networks, Systems and Components in Gothenburg, Sweden, during September 18-20, 2017.

You find the following highlights at Fraunhofer Booth 301, Hall 1:

Generic InP Foundry Platform - One InP technology to cover a vast variety of monolithic or hybrid integration solutions

Fraunhofer HHI fabricates individual photonic integrated circuits. Fraunhofer HHI offers an InP platform that integrates receivers (40GHz), transmitters (20GHz) and (1dB/cm) passive components. Partners offer services for design work and packaging.



Hybrid PICs - The best of all worlds

Fraunhofer HHI's hybrid integration platform PolyBoard allows for rapid prototyping, short iteration cycles and low upfront development effort. The technology allows the integration of on-chip free space elements, 3D structures, graphene-based electro-absorption modulators, as well as other optical functionalities such as switches, variable optical attenuators, tunable lasers, and flexible high frequency and optical interconnects. The services of Fraunhofer HHI include simulation, CAD, technology development, device manufacturing, characterization, and qualification.



FRAUNHOFER HEINRICH HERTZ INSTITUTE

Visible Light Communication - Make your light smarter

Fraunhofer HHI presents the next generation Gigabit Visible Light Communication (VLC) modules for wireless Internet access via light. Outstanding features are the smaller form factor, lower energy consumption, enhanced coverage and multi-user access. A standard Ethernet interface allows easy network integration. The new modules are immediately available for industrial prototyping and field tests.



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Coherent System Lab Demo

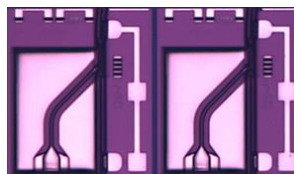
In a live remote lab demonstration, Fraunhofer HHI is showcasing its state-of-the-art test and measurement equipment for coherent system development, comprising:

- optical multi-format transmitter
- coherent optical frontend
- optical loop control
- VPItoolkit™ DSP Library.



56 GBd Components for Datacom - 56 GBd electroabsorptionmodulated DFB lasers (EMLs) and vertically illuminated photodiodes for datacom application

Fraunhofer HHI provides high-speed transmitter and receiver components for 400G Ethernet applications. The components are compliant with the IEEE P802.3bs standard.



FRAUNHOFER HEINRICH HERTZ INSTITUTE

Indium Phosphid Mach-Zehnder Modulator - O-Band High-speed Modulator

Fraunhofer HHI presents the state-of-the-art InP Mach-Zehnder Modulator with ultra-high bandwidth for O-Band applications.



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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 69 Fraunhofer Institutes and research units at locations throughout Germany. The Fraunhofer-Gesellschaft employs a staff of some 24,500, who work with an annual research budget totaling 2.1 billion euros. Of this sum, 1.9 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. International collaborations with excellent research partners and innovative companies around the world ensure direct access to regions of the greatest importance to present and future scientific progress and economic development.

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