

Multi Project Wafer Runs

Introduction

To enable you a low cost and easy access to our photonic integrated circuit technology, we offer regular scheduled Multi Project Wafer (MPW) runs in the TriPleX™ technology. This Photonic Integration platform is suitable for components for telecom/datacom in the infrared (1550nm) region, as well as in life science applications in the visible range.

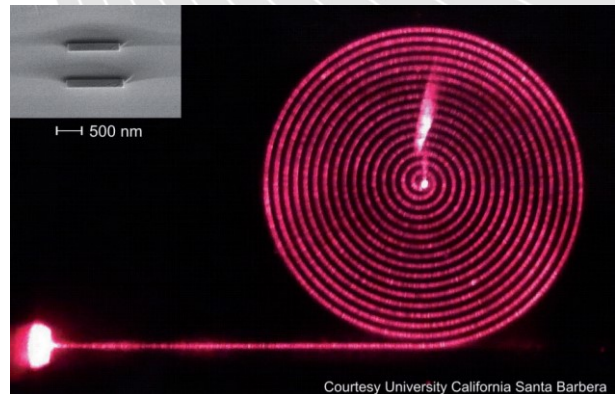
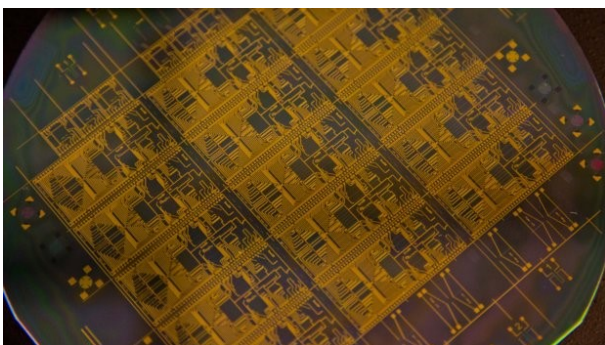
Multi Project Wafer

In addition to the PIC manufacturing we provide the following services enabling you for an easy access to the state-of-the-art photonic technology:

- Training on design tools
- Special offer for simulation tools and mask layout software
- Design kit
- Design support

In addition we offer post processing upon request:

- Etching trenches for fluidic applications
- Etching trenches next to waveguides for heat localization
- Packaging (in particular fiber chip coupling)
- Glass bonding and fluidic connection
- Polishing



MPW Technology – 1550 nm

The TriPleX™ waveguides offered within the infrared MPW are designed for single polarization (TE) applications to operate at the telecom wavelength (1.55 μm). The waveguide however is also transparent for lower wavelengths. The TriPleX™ technology has applications from 405nm to 2.35 μm . In addition, these waveguides show a low propagation loss (< 0.5 dB/cm @ 1.55 μm). The high contrast waveguide allows bend radii of 125 micron, which makes large scale integration (VLSI) on chip possible. The coupling to and from a fiber from this high contrast waveguide is optimized by the addition of spot size converters, which expand the mode profile to the size of a standard telecom fiber, allowing low loss fiber chip coupling.

Planning

	17 th run	18 th run	19 th run
Tape out	31 July 2019	30 Nov 2019	31 Mar 2020
Devices ready	15 Dec 2019	30 Apr 2020	31 Aug 2020

MPW Technology – Visible

For the visible (400-700 nm) the MPW is offered through an EU H2020 funded pilot-line project called *PiX4life*. This project will mature a state of the art silicon nitride (SiN) photonics pilot line for life science applications in the visible range and pave the way to make it accessible as an enabler for product development by a broad range of industrial customers. See www.pix4life.eu for more information including the planning.

Are you interested? Discover more on our website www.lionix-international.com/mpw

Our chips drive your business

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