

Custom PIC Quick turn-around from concept to chip

## ioNext PIC OFFER



Teem Photonics offers **customized passive Photonic Integrated Circuits** (PIC) based on its reliable, versatile and cost effective ioNext platform. The PICs are realized via the ion-exchange process on bulk glass substrates and are based on standardized building blocks available

through a specific **Process Design Kit** (see below). Because the ioNext process flow contains only a limited number of steps, Teem

Photonics guarantees a **short turnaround time** (one month from GDS to chip) and an **optimal responsivity** to the PIC designers' demands. On top of the PIC design and foundry services, Teem Photonics also

on top of the PIC design and foundry services, Teem Photonics also proposes a chip pigtailing and packaging service in order to offer laboratoryready integrated optical components.



#### ioNext PROCESS FLOW

The ioNext waveguides are patterned onto a proprietary glass substrate via masking and photolithography, thanks to selective doping where the mask has been etched. It results in gradient-index waveguides featuring a precisely controlled MFD and effective index.



### **BUILDING BLOCKS**



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### **COMMECRIAL OFFERING**

- **Design service**, from concept to GDS file
- **Process Design Kit** available to customers, with accurate waveguide modelling
- Pigtailing and testing service for lab-ready components
- Short turnaround time: 1 month from GDS to chip
- Erbium-doped platform available for laser and amplifier designs

