Simple fabrication and evaluation of polymer optical waveguides for next generation optical interconnection technology

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Photonics polymer plays an important role for board- and chip- level optical interconnection. Variety of materials and waveguide fabrication processes have been proposed and demonstrated so far. In next generation optical printed circuit board, functional optical circuits will be required as well as passive optical circuit as shown in Fig.1. In this presentation, recent progress of fabrication and evaluation of polymer optical waveguides for high performance optical integrated circuits is discussed.

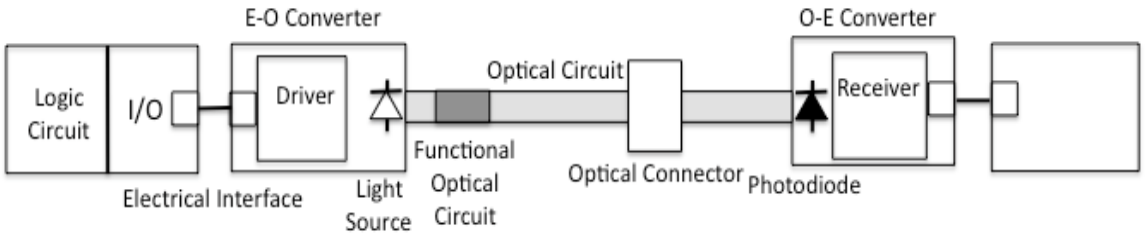

Figure 1. Schematic diagram of the next generation optical interconnection.