

CORNERSTONE: 硅基光子器件代工

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多种平台:

220 nm, 340 nm, 500 nm SOI 平台

多种器件类型:

有源器件,无源器件,集成热调制器的无源器件

周期短:

无源: 3个月; 有源: 6-9个月

高度集成:

打线接合电封装以及倒扣电封装

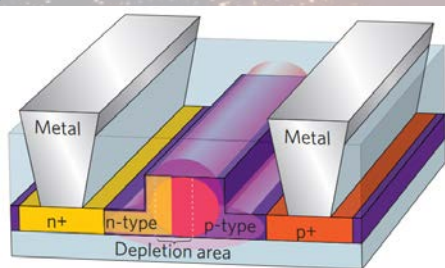
多种光刻技术:

可实现深紫外光刻以及电子束光刻的混合工艺

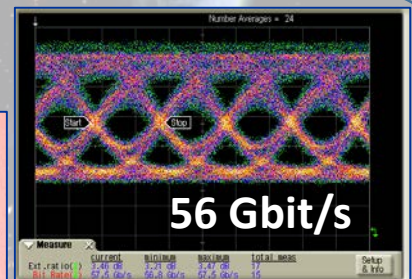
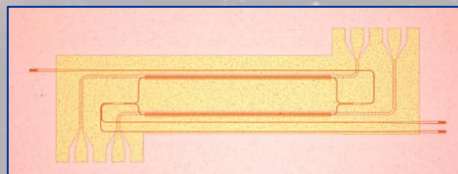
提供标准器件库

可定制全套器件以及自定义工艺步骤

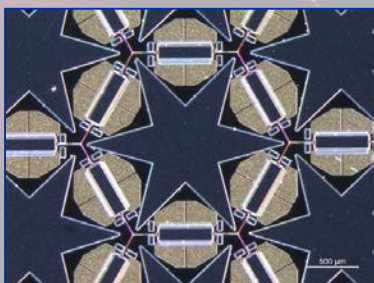
价格优惠



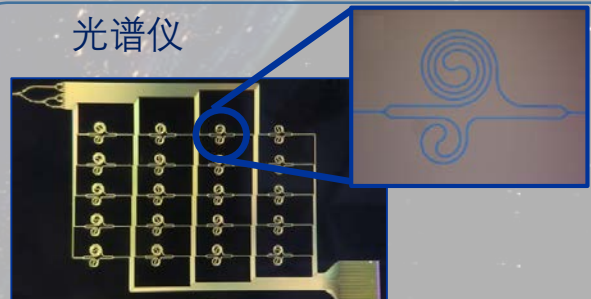
基于载流子耗尽的MZI调制器



可编程光路



光谱仪



CORNERSTONE: Silicon Photonics Fabrication Capability

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Multiple platforms:

220 nm, 340 nm, 500 nm SOI platforms

Multiple device capabilities:

Active device, passive device, passive device with heater

Fast Turn-around time:

Passive: 3 months; Active: 6-9 months

High integration capability:

Wire bonding and flip-chip bonding

Multiple lithography techniques:

Possibility for hybrid processes using DUV lithography and ebeam lithography

PDK available

Bespoke mode and customized processing steps available

Competitive costs

Metal
n+ n-type p-type p+
Depletion area

MZI carrier-depletion modulators

Number Averages = 24
56 Gbit/s

Measure	Current	Voltage	Power	Temp	Setup
Ext. rat. (Hz)	2.40 GHz	2.40 GHz	1.0	15	Setup
Ext. Mod. (Hz)	2.40 GHz	2.40 GHz	1.0	15	Setup

Programmable circuits

Spectrometers