

# BASE ACTIVE PIC

## Features

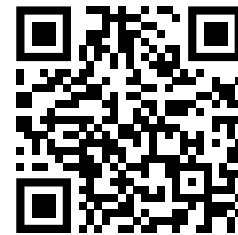
The MPW Base Active PIC consists of one silicon and two silicon nitride waveguides. Six implant levels are available for active component design, a Ge photodetector, two copper wiring levels, and an Al termination pad level.

The Base Active PIC is supported by component libraries from Analog Photonics (APSUNY), Spark Photonics, and the Research Foundation for SUNY (RFS):

- The APSUNY library is a comprehensive, high performance, black box library focused on operation in the O, C, and L bands.
- The Spark Photonics library features waveguides, input couplers, MMIs, and more focused on operation from 700-1300nm.
- The RFS library includes basic passive components such as input couplers, power taps, and splitters.

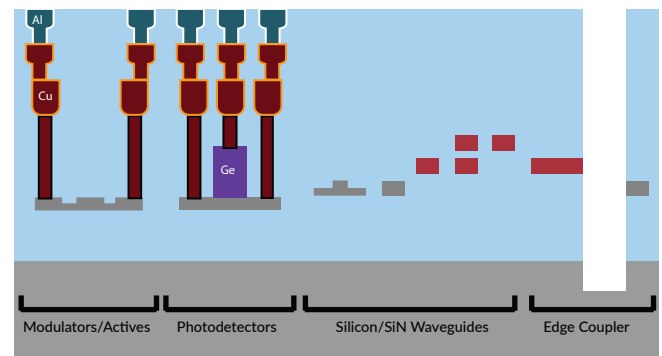
VIEW COMPONENT LIBRARIES

[aimphotonics.com/pdk](http://aimphotonics.com/pdk)



## Customization Available

- Adjust ridge depth
- Adjust waveguide thickness
- Adjust vertical spacing between waveguides
- Trench to the waveguides with or without expose
- Extra/custom implants
- Extra wiring level



While MPWs typically follow a standard process flow that designers cannot modify, AIM Photonics has developed a “bite size custom” offering where designers can make minor changes to the process flow for an additional fee. This is not a full custom run, and the modification must be something the fab team can execute without development work.

The fee typically varies between \$10,000 - \$50,000 depending on exactly what customization(s) are desired.

Please contact us well in advance of the design due date to ensure the fab team understands your request and can properly quote the work.

[Schedule and Pricing Information](#) →

## Schedule

Year	Run ID	Design Due Date	Expected Ship Date
2022	ACT 22-01	Mar 7, 2022	Aug 7, 2022
	ACT 22-02	Jun 6, 2022	Nov 6, 2022
	ACT 22-03	Sep 12, 2022	Feb 12, 2023
	ACT 22-04	Dec 5, 2022	May 5, 2023

## Pricing

Active PIC Offerings	Member (per 20 qty chips)	Non-Member (per 20 qty chips)
8 mm <sup>2</sup>	\$25,000	\$30,000
25 mm <sup>2</sup>	\$50,000	\$60,000
50 mm <sup>2</sup>	\$100,000	\$120,000

### Notes

- Start dates for runs are subject to change.
- Member Prices shown are for customers who are Full Active Members and have executed an AIM Photonics Membership Agreement.
- Customer receives 20 qty unpackaged chips of the size/technology ordered.
- All chips are placed in a gel-pack and shipped to the customer as part of Standard MPW Offerings pricing.
- For an additional charge, sub-dicing or post processing is available – please see information on [aimphotonics.com](http://aimphotonics.com) about Testing, Assembly and Packaging (TAP) Services.
- All pricing shown subject to change

Request More Information at:  
[aimphotonics.com/info-request](http://aimphotonics.com/info-request)

