amf

ADVANCED MICRO FOUNDRY

Silicon Photonics

MPW Services

Unleash Your Designs
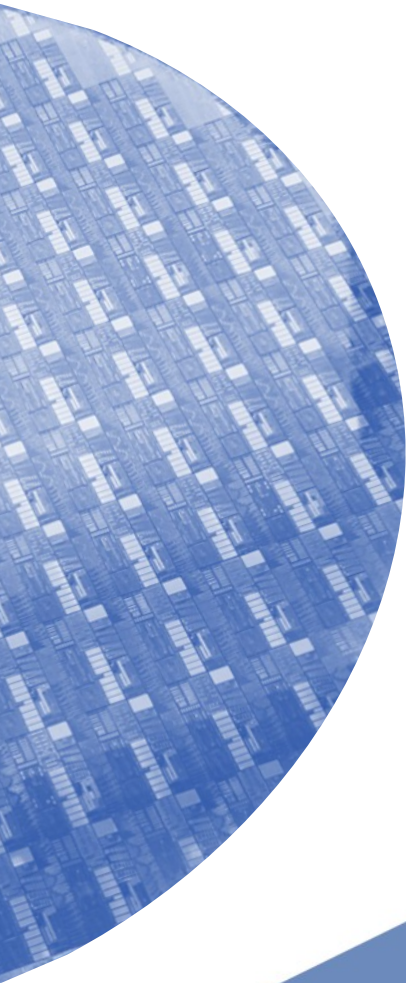
Advanced Micro Foundry is a leading commercial pure-play Silicon Photonics specialty foundry based in Singapore. With over 20-year track record in Silicon Photonics research, AMF's comprehensive MPW services are widely utilized by Silicon Photonics designers, and the ideal platform to validate your designs.

Short Cycle Time

PDK Device Library

SOI SiN-on-SOI

Wafer Level Testing

Platforms	Silicon-on-Insulator (SOI)
	Silicon Nitride-on-SOI

Process	193 & 248 lithography
	Deep silicon trench for edge coupling
	Implantations for high speed modulators
	Germanium epitaxy for photodetectors
	TiN heater and 2 Al metal layers
	Oxide cladding open for exposed waveguides in sensing application

Building Blocks	Waveguides, edge/grating couplers
	Crossing
	Polarization rotator/splitter
	High speed photodetector
	High speed modulator, etc.

PDK Software	Cadence
	KLayout
	Luceda
	Lumerical
	Synopsys (PhoeniX OptoDesigner & RSoft OptSim)

MPW Schedule — 2023

Shuttle Run 2023	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6
Final GDS Submission Due Date*	1 Feb	1 Apr	1 Jun	1 Aug	1 Oct	1 Dec

* Please submit GDS early for design rule check. Any DRC violation must be waived by this date
Please contact us for ad hoc shuttle run requests

Contact Information

Tel: +65 6909 0955

Email: sales@advmf.com

CERTIFIED QUALITY MANAGEMENT SYSTEM ISO 9001

CERTIFIED ENVIRONMENTAL MANAGEMENT SYSTEM ISO 14001