

The logo for Advanced Micro Foundry (amf) features the lowercase letters 'amf' in a white, sans-serif font, set against a solid red circular background. To the right of the circle, there are two small dots, one dark blue and one orange, positioned above the company name.

amf

ADVANCED
MICRO
FOUNDRY

A stylized, white circuit board pattern with various lines, circles, and junctions, set against a red background, occupies the top right corner of the page.

Your Ideal SiPh Foundry Partner

From Prototyping to Production

A stylized, white microfluidic channel pattern with various lines, circles, and junctions, set against a blue background, occupies the bottom left corner of the page.

*Located in Singapore
Serving you Worldwide*

*For more information
Please contact: sales@advmf.com*

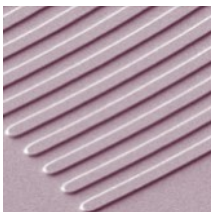
YOUR IDEAL FOUNDRY PARTNER

AMF is a leading commercial pure-play Silicon Photonics specialty foundry serving customers in various market segments including telecommunication, data centres, LiDAR, etc. We aim at becoming the de-facto Si Photonics foundry by providing best-in-class solutions supported by our proprietary IP and services from our team of Optical and Semiconductor experts who will work closely with you to support your project from concept to volume production.

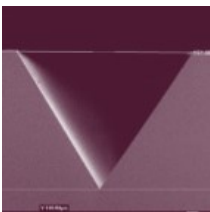


COMPREHENSIVE PDK

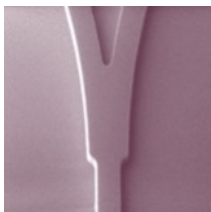
- Most comprehensive device library (ready to use device design blocks)
- PDK Support — Available on Luceda, Lumerical, Mentor, Synopsys, Cadence & KLayout platforms
- Optical, Electro-Optical & Opto-Electrical Testing Services



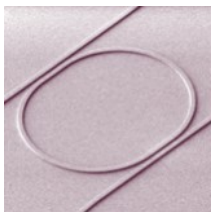
Grating Coupler



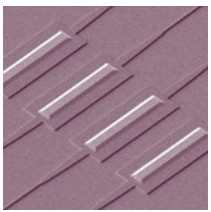
V-Groove



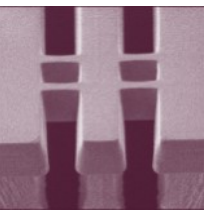
Splitter



High speed modulator



Ge Detector Array



Suspended Edge Coupler

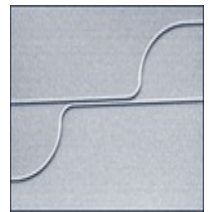
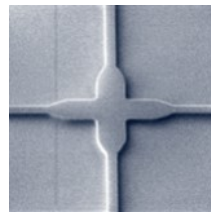
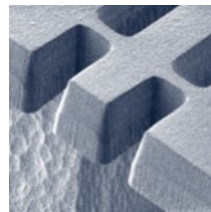
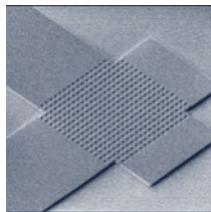
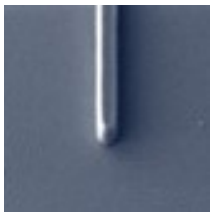
HIGH PERFORMANCE DEVICES

- Proprietary building blocks for high-bandwidth Photonics Integrated Circuits for 400Gbps and above
- 80+ PDK devices (O-Band, C-Band, L-Band) available for integration in customer layout
- Application & Wavelength specific PDK

PDK Devices	Performance
Edge Coupler	TE: <1.4dB/facet TM: <1.4dB/facet
Grating Coupler	≈ 4dB/facet
1X2 MMI	≈0.15dB
2X2 MMI	≈0.18dB
2X4 MMI	≈0.5dB
Polarization Beam Rotator & Splitter	TE <0.1dB, TM <0.2dB PER ~19dB

PDK Devices	Performance
O-Band, C-Band Ge Photodetector	BW: > 70GHz (C-Band), > 40GHz* (O-Band), R ~ 1A/W, Dark Current < 20nA
O-Band, C-Band High Speed MZM	EO BW> 40GHz 56GBaud
Thermal-Optical Phase Shifter	Power consumption <2 mW/Pπ
Crossing	<0.15dB, crosstalk <-40dB
APD	Please contact us for details

** O-band BW is limited by measurement tool capability*



COMPREHENSIVE SERVICE OFFERINGS

• MANUFACTURING SOLUTIONS

- 200mm wafer platform
- Glass Wafers platform
- 90nm equivalent lithography for low loss WG
- Silicon Germanium & Germanium Epitaxy
- MEMS processes for Photonics integration solutions
- Dicing and backgrinding services
- Wafer Level Testing (Optical & Electrical)
- Comprehensive Defect Scanning
- Inline and Outgoing Quality Control
- On-time delivery assurance

FLEXIBLE SERVICES & SUPPORT

AMF team has a proven track record for the past twenty years (since 2003) as the leading technology provider for Integrated Optics solutions. Through our newly upgraded cleanrooms, AMF also offers customized manufacturing services with competitive Cycle time, Quality and Reliability assurance

- MPW & Dedicated platforms for proof of concept
- Small Volume Prototyping services for product qualification
- Large Volume manufacturing services for product deployment

MULTIPLE SI PHOTONICS PLATFORMS

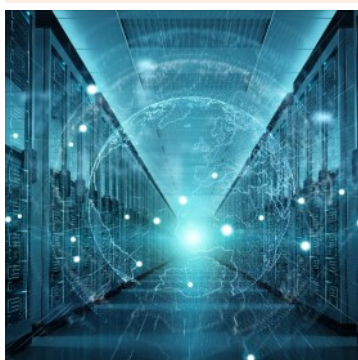
O-Band C-Band	• Silicon-On-Insulator (SOI)	High BW Modulators, Optical Phase Array, Sensors, Signal Processing etc.
All	• SiN-on-SOI	Integrated Silicon Nitride Layers, supporting Telecommunication wavelength
All	• SiN-on-Oxide	Complete suite of SiN platforms with thickness from 100nm to 800nm for both
All	• SiN on Glass Wafers	SiN Waveguide, Mirrors... for Augmented/Virtual Reality solutions
All	• Other Custom Platforms	Assembly & wafer level packaging solutions, SOI platforms with various thickness (Available upon request)

AMF platforms support a wide range of applications

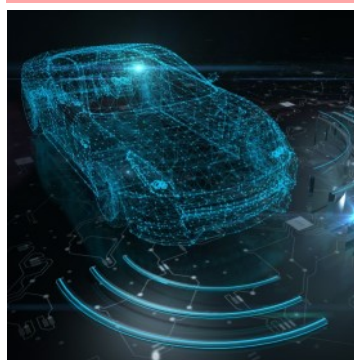
Telecom



Data Centers



LiDAR & Sensors



AR/VR



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For additional information, please contact us at the address below or visit our website

若需要更多信息，请发送邮件联系我们的工作人员或访问我们的网站

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