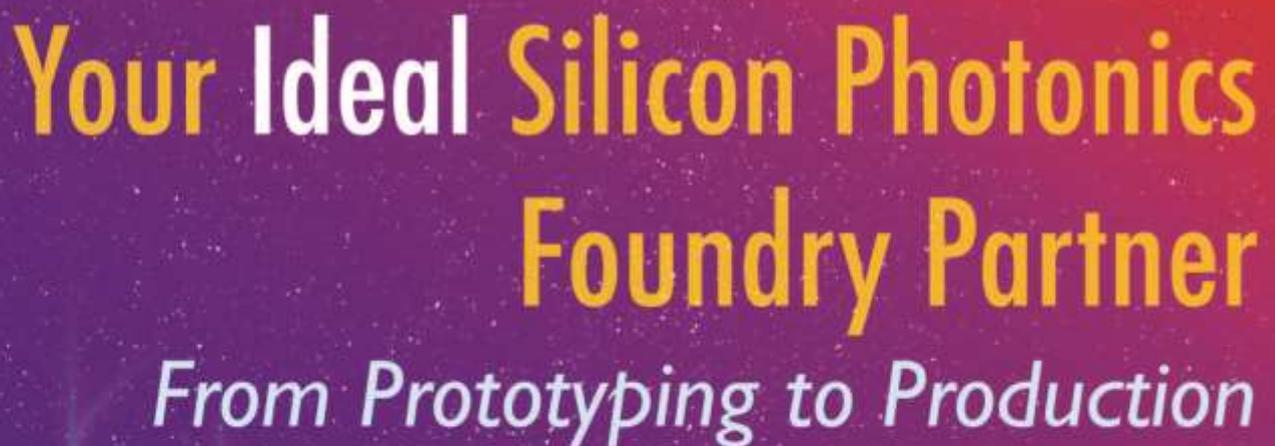


The logo for amf (Advanced Micro Foundry) consists of the lowercase letters 'amf' in a white, bold, sans-serif font, set against a dark red circular background.

ADVANCED  
MICRO  
FOUNDRY

The main title of the advertisement is 'Your Ideal Silicon Photonics Foundry Partner', with 'Your Ideal' in white and 'Silicon Photonics Foundry Partner' in yellow. Below the title is the subtitle 'From Prototyping to Production' in white. The background features a dark blue gradient with white circuit traces and a red-to-purple gradient at the top.

*Located in Singapore  
Serving you Worldwide*

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*For more information  
Please contact: [sales@advmf.com](mailto:sales@advmf.com)*

# YOUR IDEAL FOUNDRY PARTNER

AMF, a spin off from A\*STAR Institute of Microelectronics (IME) - Singapore, is a leading commercial pure-play Silicon Photonics specialty foundry.

**Customer Concept**



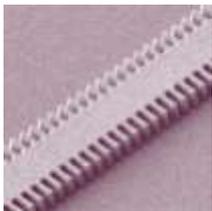
**Prototyping**

**Volume Production**

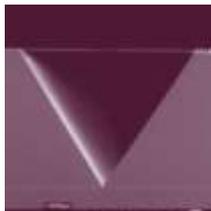
Our multidisciplinary team of Optical and Semiconductor experts will work closely with your teams to ensure your utmost satisfaction through the development of solutions tailored to your needs.

## DESIGN ENABLEMENT

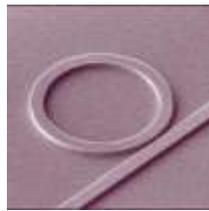
- Most comprehensive device library (ready to use device design blocks)
- PDK Support — Available on Lumerical, Luceda and Synopsys (PhoeniX) platforms
- Electro-Optical Testing



Sidewall Grating



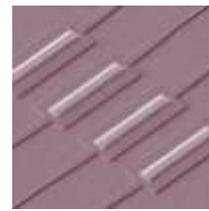
V-Groove



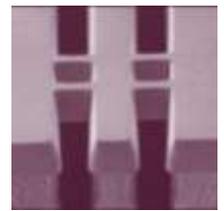
Passive Ring



Isolated Microring



Ge Detector  
Array



Suspended  
Edge Coupler

## MANUFACTURING SOLUTIONS

- 200mm wafer platform
- 248nm & 193nm lithography for low loss WG
- Silicon Germanium & Germanium Epitaxy
- MEMS OSA Processes for Wafer Level Assembly
- Low cost packaging building blocks/solutions
- Cu bumping, backgrinding & chip/wafer bonding
- Wafer Level Testing (Optical & Electrical)
- Comprehensive Defect Scanning & Quality Control
- On-time delivery assurance

## FLEXIBLE SERVICES & SUPPORT

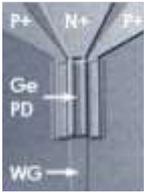
AMF team has a proven track record for the past fifteen years (since 2003) as the leading technology provider for Integrated Optics solutions. Through our newly upgraded cleanrooms, AMF also offers customized manufacturing services with competitive Cycle time, Quality and Reliability assurance

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

# HIGH BANDWIDTH SOLUTIONS

- Proprietary building blocks for high-bandwidth Photonics Integrated Circuits for 400Gbps
- Black-Boxes available for integration in customer layout with technical support

## STATE-OF-THE-ART BUILDING BLOCKS

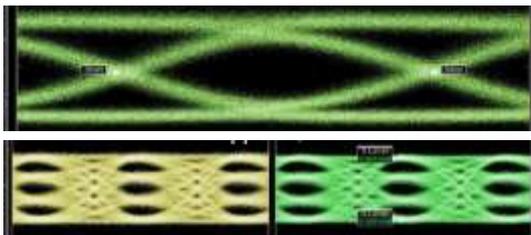


### Photodetector

- 32GHz Bandwidth with >62GBaud
- 3V Bias Voltage
- PAM4 modulation >62 Gbps (based on 31GBaud)

### Low-loss Fiber-to-Chip Coupling

- Proprietary Best-In-Class suspended Edge Coupler
- 1db/facet loss
- High Wafer uniformity and large alignment tolerance



SNR: 5.43  
Bit Rate: 61.96 dB  
ER: 4.65 dB

Outer ER: 3.17 dB  
0-Level: 2.20 mW  
3-Level: 4.57 mW

### Modulator

- 56 Gbps Data Rate
- 3V Bias Voltage
- PAM4 31 GBaud

## MULTIPLE SI PHOTONICS PLATFORMS

O-Band C-Band	• <b>Silicon-On-Insulator</b>	High BW Modulators, Optical Phase Array, Sensors, Signal Processing etc.
Visible	• <b>Silicon Nitride</b>	Integrated Silicon Nitride Layers, supporting typical Communication wavelength
O-Band C-Band	• <b>Germanium-On-Silicon</b>	High Speed Photodetector, High responsivity APD
All	• <b>Other Custom Platforms</b>	Assembly & wafer level packaging solutions, SOI platforms with various thickness (Available upon request)

### AMF platforms support a wide range of applications

#### Interconnects



#### LiDAR



#### Sensors



#### Consumer Optics



# YOUR IDEAL FOUNDRY PARTNER



## ADVANCED MICRO FOUNDRY



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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