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 16-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.

<table>
<thead>
<tr>
<th>Platforms</th>
<th>Silicon-on-Insulator (SOI)</th>
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<tbody>
<tr>
<td></td>
<td>Silicon Nitride-on-SOI</td>
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<thead>
<tr>
<th>Process</th>
<th>193 &amp; 248 lithography</th>
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<tbody>
<tr>
<td></td>
<td>Deep silicon trench for edge coupling</td>
</tr>
<tr>
<td></td>
<td>6 implantations for high speed modulators</td>
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<td></td>
<td>Germanium epitaxy for photodetectors</td>
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<td></td>
<td>TiN heater and 2 Al metal layers</td>
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<td>Oxide cladding open for exposed waveguides in sensing application</td>
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<thead>
<tr>
<th>Building Blocks</th>
<th>Waveguides, edge/grating couplers</th>
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<tr>
<td></td>
<td>Crossing</td>
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<td>Polarization rotator/splitter</td>
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<td>High speed photodetector</td>
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<tr>
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<td>High speed modulator, etc.</td>
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<thead>
<tr>
<th>PDK Software</th>
<th>Luceda</th>
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<tbody>
<tr>
<td></td>
<td>Synopsys (PhoeniX OptoDesigner &amp; RSoft OptSim)</td>
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<td>Lumerical</td>
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**MPW Schedule**

<table>
<thead>
<tr>
<th>Shuttle Run</th>
<th>2021 Run 3</th>
<th>2021 Run 4</th>
<th>2022 Run 1</th>
<th>2022 Run 2</th>
<th>2022 Run 3</th>
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<tbody>
<tr>
<td>GDS Submission Due Date*</td>
<td>01 Jul 2021</td>
<td>01 Oct 2021</td>
<td>15 Jan 2022</td>
<td>01 Apr 2022</td>
<td>01 July 2022</td>
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</tbody>
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*Please submit GDS early for design rule check. Any DRC violation must be waived by this date.
Please contact us on ad hoc shuttle run requests

**Contact Information**

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Website: www.advmf.com