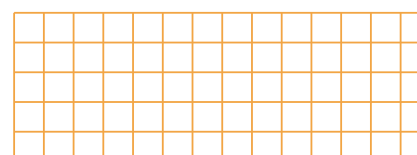
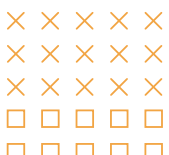
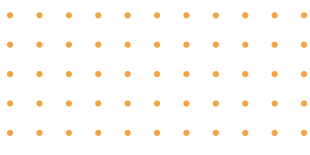
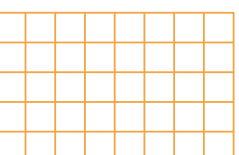


CompoundTek

Realising your vision for
commercial success in
Silicon Photonics



Live . Work . Play



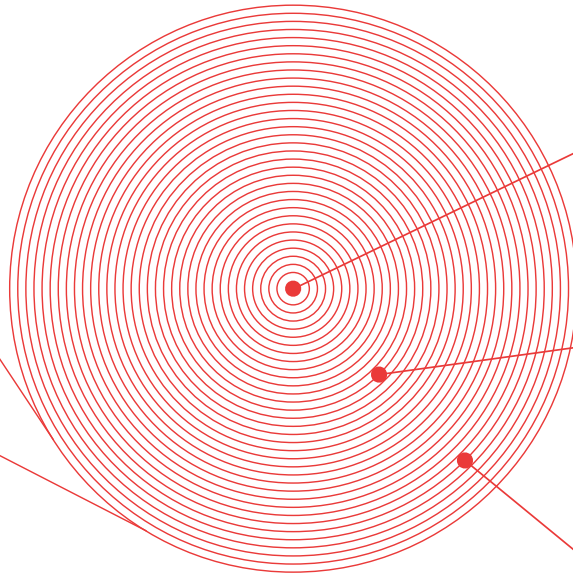


Fast Facts

Silicon photonics enhanced foundry services provider

1 Bil USD

Average revenue of global commercial customers



2017
Established in Singapore

>12
Global commercial customers

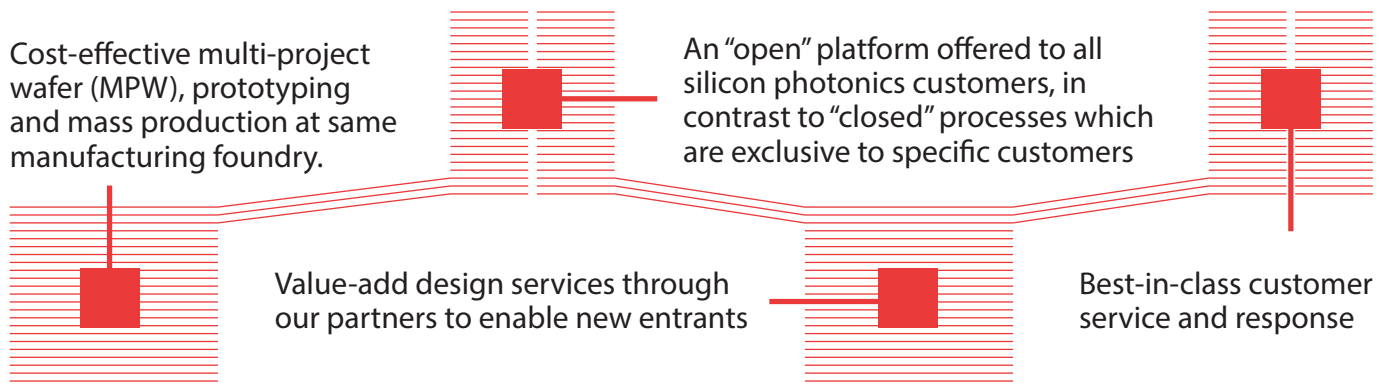
>18
International Research Institute/University customers

"CompoundTek complete EPIC's value chain by offering commercial silicon foundry capabilities in a consortium where such focus is not a core business of other members."

Jose Pozo,
Director of Technology and Innovation, EPIC

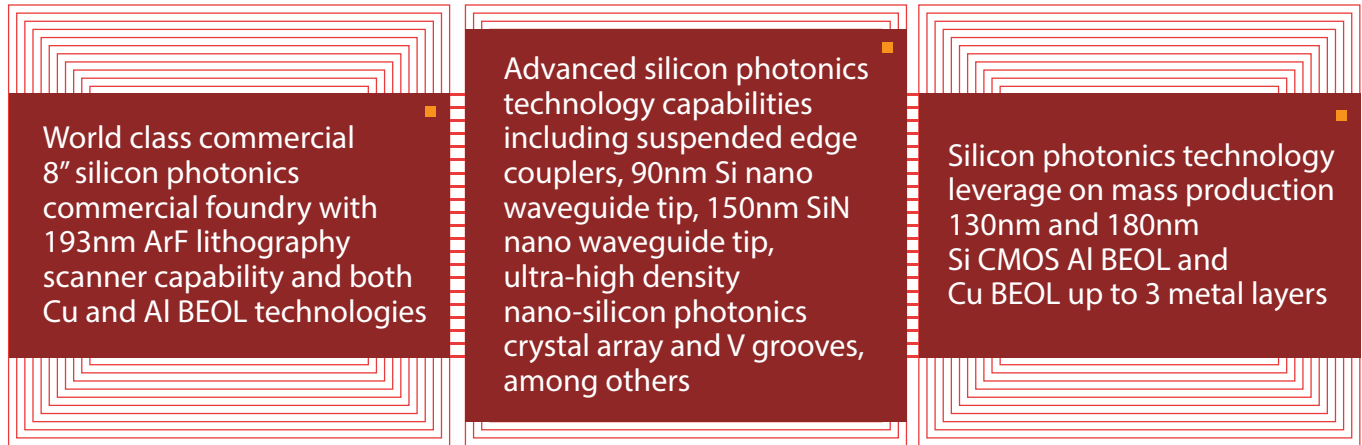
The only partner you will need in Silicon Photonics fab technologies

A fast-growing technology company that combines in-depth foundry expertise with leading industry research to bring your Silicon Photonics product designs into reality. Through our proprietary manufacturing processes in dedicated 8" Silicon Photonics foundry, we offer:



Integration that bring the best in technology

Combining world-class commercial foundry capabilities and cutting-edge silicon photonics research



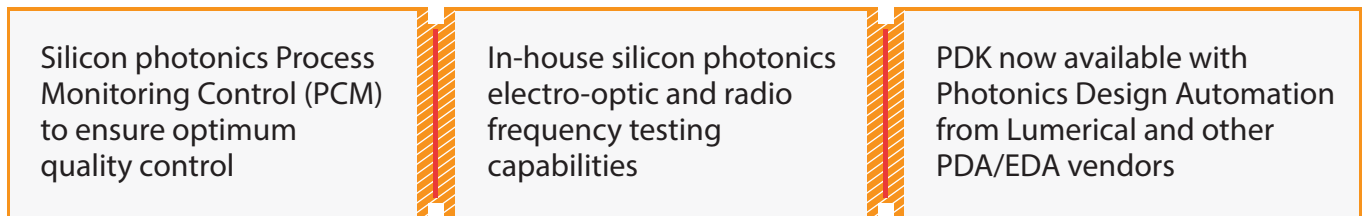
World class commercial 8" silicon photonics commercial foundry with 193nm ArF lithography scanner capability and both Cu and Al BEOL technologies

Advanced silicon photonics technology capabilities including suspended edge couplers, 90nm Si nano waveguide tip, 150nm SiN nano waveguide tip, ultra-high density nano-silicon photonics crystal array and V grooves, among others

Silicon photonics technology leverage on mass production 130nm and 180nm Si CMOS Al BEOL and Cu BEOL up to 3 metal layers

Solutions that drive operational transformation and value-add

Process IPs for advancing technological development across sectors



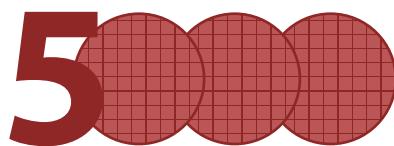
Silicon photonics Process Monitoring Control (PCM) to ensure optimum quality control

In-house silicon photonics electro-optic and radio frequency testing capabilities

PDK now available with Photonics Design Automation from Lumerical and other PDA/EDA vendors

Partnerships that deliver mass commercialisation efficiencies

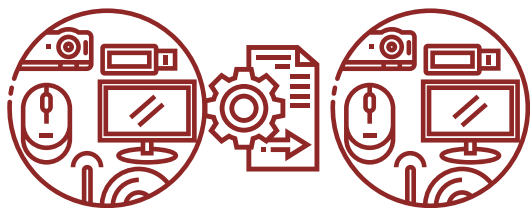
Strengthening adoption of silicon photonics in the marketplace



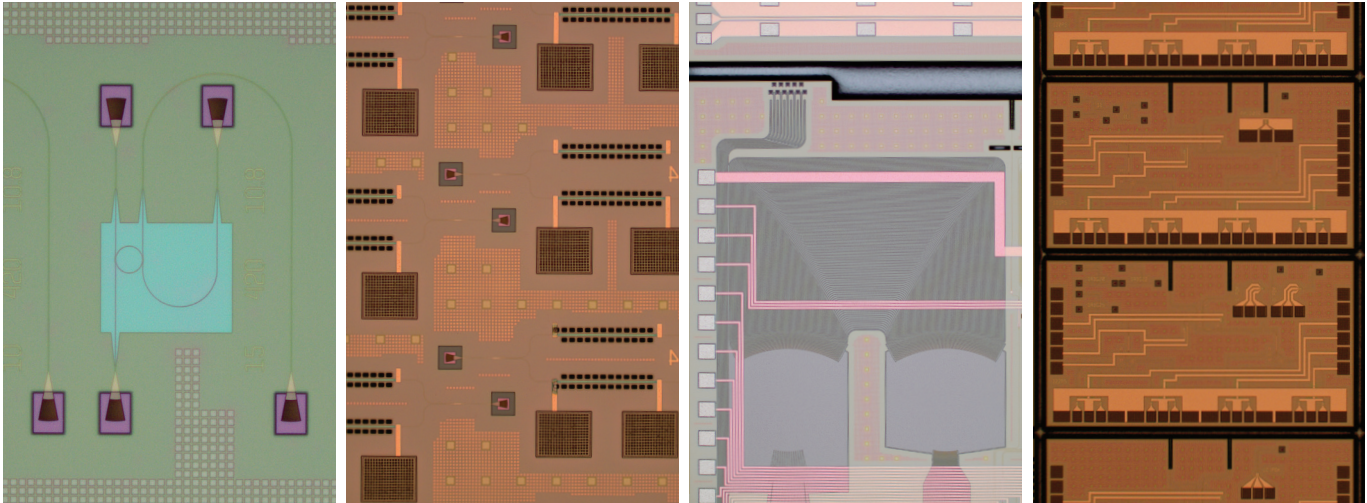
We can support over 5,000 wafers per month



Accelerated development time and wafer turnaround time



Able to offer fast porting from other silicon photonics foundry into our world-class 8" fab with high 1st time success rate



Some of the silicon photonics active and passive photomasks

EPIC-ally Unique

CompoundTek is a member of the European Photonics Industry Consortium (EPIC) and is recognized as the consortium's first and only commercial silicon photonics foundry member from Asia with process design kit (PDK) capabilities.

2019-2020 MPW Schedule

Full Reticle or MPW shuttle run about two months upon delivery of photomask

Example: Total 23 mask layers, 2 Days per Mask layer (DPML) x 23 + 14 days Ge growth without any development.

		2019												2020												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Fab Run	Due																									
MPW#1	31 Jan 19																									
MPW#2	31 Mar 19																									
MPW#3	31 May 19																									
MPW#4	31 Jul 19																									
MPW#5	30 Sep 19																									
MPW#6	30 Nov 19																									
On-demand / full reticle field		On-demand / full reticle field; flexible start																								
MPW#1	31 Jan 20																									
MPW#2	31 Mar 20																									
MPW#3	31 May 20																									
MPW#4	31 Jul 20																									
MPW#5	30 Sep 20																									
MPW#6	30 Nov 20																									
On-demand / full reticle field														On-demand / full reticle field; flexible start												

Notes/Assumptions:

1. Submitted mask layout does not have any DRC violation/waived by customer by due date for each fab run.
2. MPW fab runs will only start if economically feasible.
3. Must follow design rule of latest version of PDK.
4. Payment term: 50% upon mask layout submission and 50% upon delivery of diced chips for MPW/full wafer for full reticle field design.

CompoundTek Pte Ltd

5 International Business Park
#02-07A Mewah Building
Singapore 609914

t. +65-6515 0170

e. enquiry@compoundtek.com

www.compoundtek.com