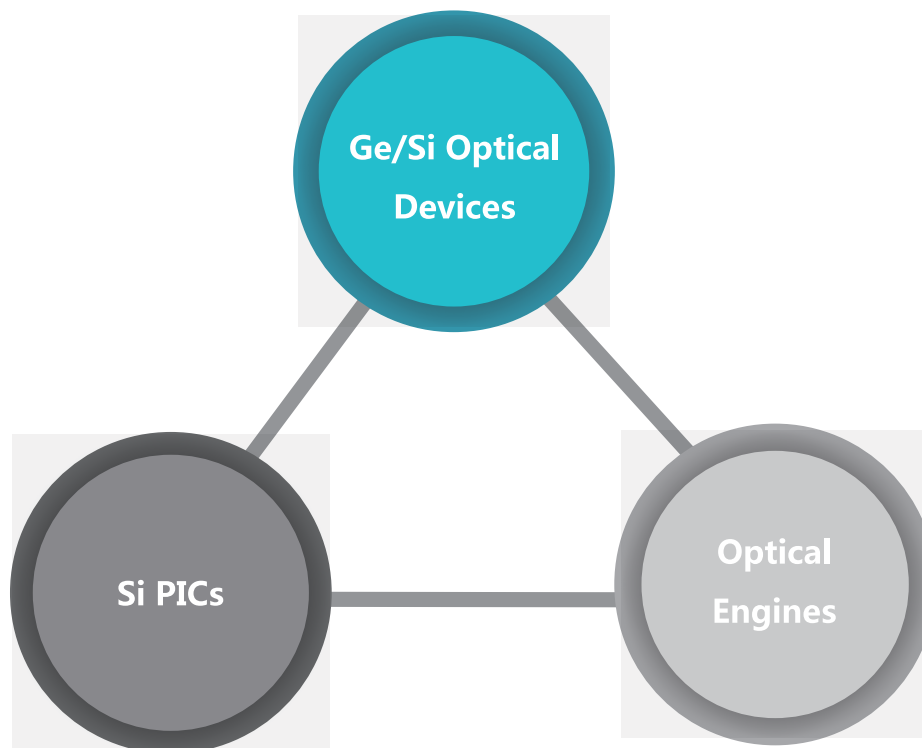


Key Products



www.sifotonics.com



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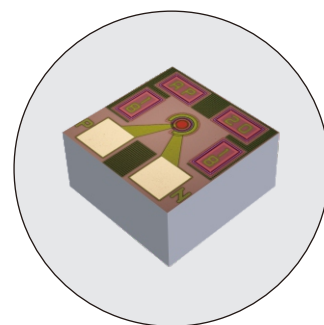
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Ge-on-Si APD and PIN

Leveraging the advanced CMOS technologies and process capabilities, SiFotonics is able to deliver ultra high performance Ge/Si APD and PIN devices with high volume, low cost and great uniformity.

Features

- High-performance, cost-effective silicon photonic solutions
- 8 inch silicon wafer for high volume production in standard CMOS foundry
- Multiple data rates (10G/25G/50G) and wide operational wavelengths (850nm~1550nm)
- High reliability for non-hermetic package
- Good linearity for advanced modulation schemes such as PAM4



Selection Table

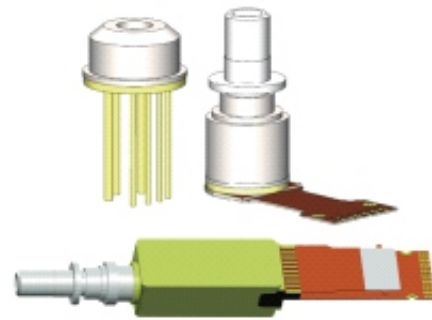
Data Rate	P/N	Chip Type	Package	Wavelength	Application
10Gbaud	PD1503-50M3	PIN	Singlet	850~1550nm	10GBASE-LR, 14G Fiber Channel
	AP1503-30S8	APD	Singlet	850~1000nm	Monitor
25Gbaud	PD2005-20M3-T	PIN	Singlet	1310nm	5G wireless, 25GBASE-LR
	PD2005-30M3-T	PIN	Singlet	1310nm	5G wireless, 25GBASE-LR
	PD2045-20M3-xxx	PIN	x4 array	1310nm	250um, 750um pitch available
	AP2002-20S8	APD	Singlet	850nm	SWDM, monitor
	AP2005-16M3	APD	Singlet	1310nm	25GBASE-ER, 50GBASE-ER
	AP2045-16M3-750	APD	x4 array	1310nm	100GBASE-ER4-lite, 200GBASE-ER4
50Gbaud	PD4005-16M3-T	PIN	Singlet	1310nm	100GBASE-DR1/FR1/LR1
	PD4045-16M3-xxx	PIN	x4 array	1310nm	400GBASE-DR4/FR4, 250um, 500um, 750um pitch available

TO-Can and ROSA

Based on the high performance Ge-on-Si APD/PIN devices, SiFotonics provides 25G~400G data rate TO-Cans or ROSA optical components with TO46 or Box type package.

Features

- High performance limiting or linear Rx solutions
- Hermetic sealing and high reliability
- Multiple operating data rate covering 25G~400G
- Wide operating temperature range



Selection Table

Data Rate	Part Number	Chip Type	Package	Wavelength	Modulation Format	Application
25G	T5PD20M3-xx	PD	TO-Can	1310nm	NRZ	5G wireless, 25G BASE-LR
	T7AP20M3-xx	APD	TO-Can	1310nm	NRZ	5G wireless, 25G BASE-LR
	R7AP20M3 -xxxx	APD	ROSA	1310nm	NRZ	5G wireless, 25G BASE-ER
	R7AP20L5 -xxxx	APD	ROSA	1550nm	NRZ	Tunable SFP28
50G	T7PD22M3-xx	PD	TO-Can	1310nm	PAM4	50G-LR BIDI
	R7PD22M3-xxxx	PD	ROSA	1310nm	PAM4	50G BASE-LR
	T7AP22M3-xx	APD	TO-Can	1310nm	PAM4	50G-ER BIDI
	R7AP22M3-xxxx	APD	ROSA	1310nm	PAM4	50G BASE-ER
100G	R7PD42M3 -xxxx	PD	ROSA	1310nm	PAM4	100G-LR1
	RMHL320 -1xx	APD	Box ROSA	LAN-WDM	NRZ	100G BASE-ER4-Lite, 0~70C
	RMHL320 -2xx	APD	Box ROSA	LAN-WDM	NRZ	4x25G, -40~85C
200G	RMHL500 -xxx	APD	Box ROSA	LAN-WDM	PAM4	200G-ER4
400G	RMHC750 -xxx	PD	Box ROSA	CWDM	PAM4	400G-LR4

Nx100G PAM4 Silicon Photonics Solutions

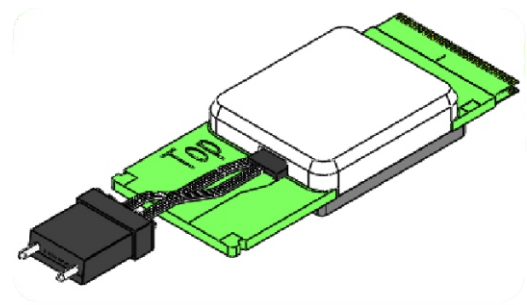
Features

- Silicon photonics high performance modulator PICs
- Ge-on-Si PD arrays or integrated WG PD
- State-of-the-art driver and TIA
- Cost effective package solutions
- High bandwidth transmitter
- Low TDECQ under 5db ER
- High sensitivity receiver
- Supporting up to 2km transmission



400G-DR4 Optical Engine

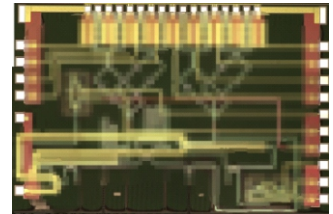
- Integrated MCU and ABC unit
- Two FPCs for electrical interface
- Standard MPO connector
- Compact size for QSFP-DD



Coherent Silicon Photonics Solutions

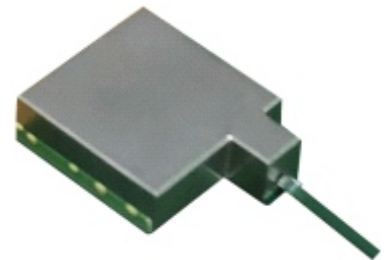
ICR Chip

- Monolithically integrated coherent receiver PIC
- High bandwidth Ge-on-Si PD
- Multiple baud rate covering 32G~128Gbaud
- Low loss edge coupler
- Supporting non-hermetic package



400G IC-TROSA

- Silicon photonics PIC with integrated IQ modulator and intradyne receiver
- Supporting QPSK and QAM modulation up to 64Gbaud
- Integrated driver and TIA
- BGA electrical interface
- Compact size supporting QSFP-DD



SiPh Solution for FMCW LiDAR

- Silicon photonics coherent PICs (ICT/ICR) for highly integrated FMCW LiDAR optical engine
- Silicon photonics beam steering PIC for true solid-state LiDAR

