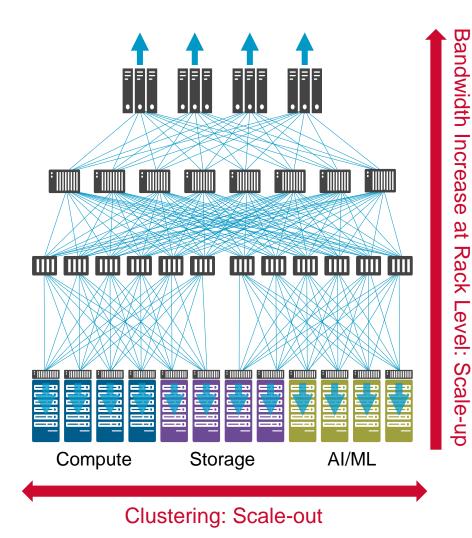
TH5 51.2T Bailly CPO (Co-Packaged Optics)

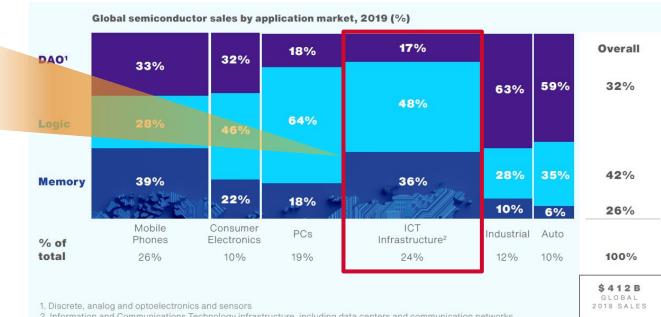
Optical Systems Division

March 2023



Compute Systems Trends Require More Data Movement





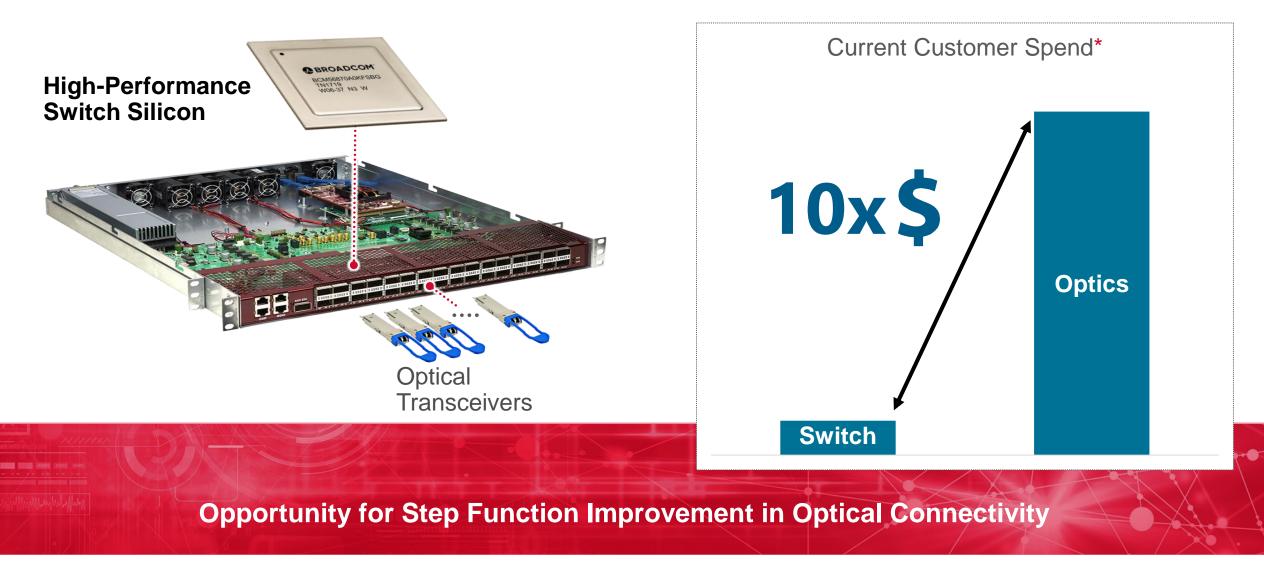
2. Information and Communications Technology infrastructure, including data centers and communication networks Sources: SIA WSTS, Gartner

Source: SIA/BCG Report:

Strengthening the Global Semiconductor Supply Chain in an Uncertain Era, April 2021



Optical Interconnect Dominates Fabric Silicon Spend

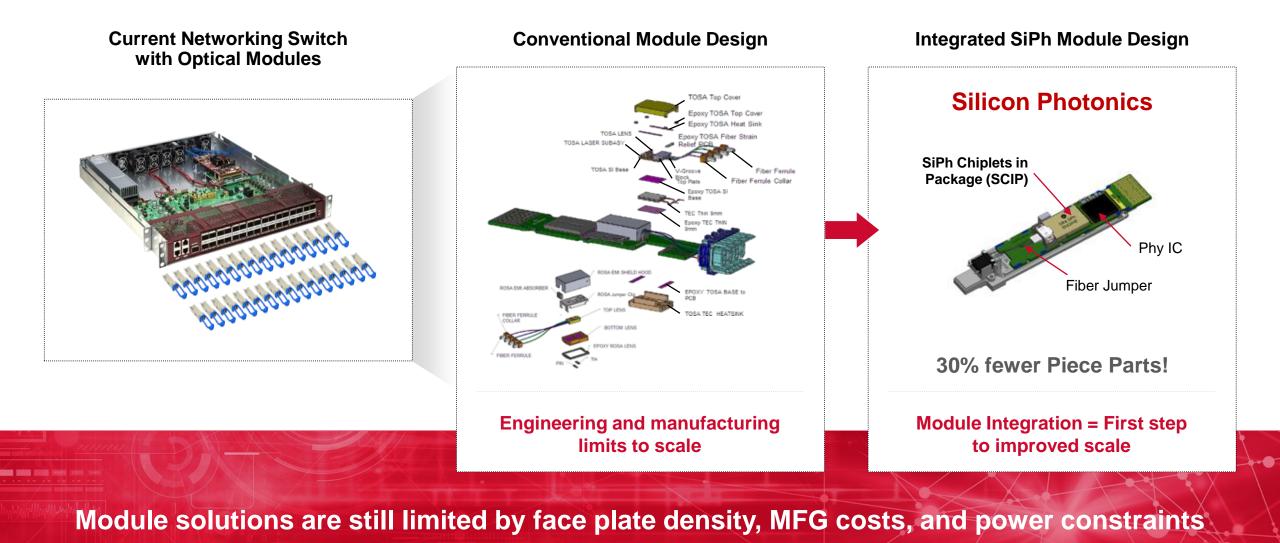


* Source: LightCounting, Dell'Oro, 650 Group and Broadcom internal estimates

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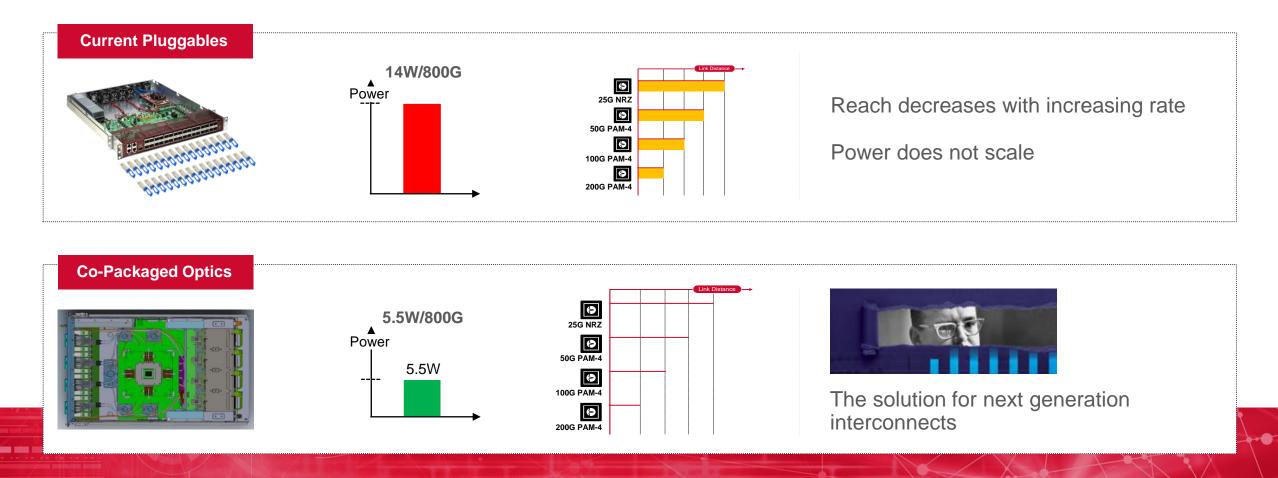


Current Market Solution for Network Connectivity: Pluggables





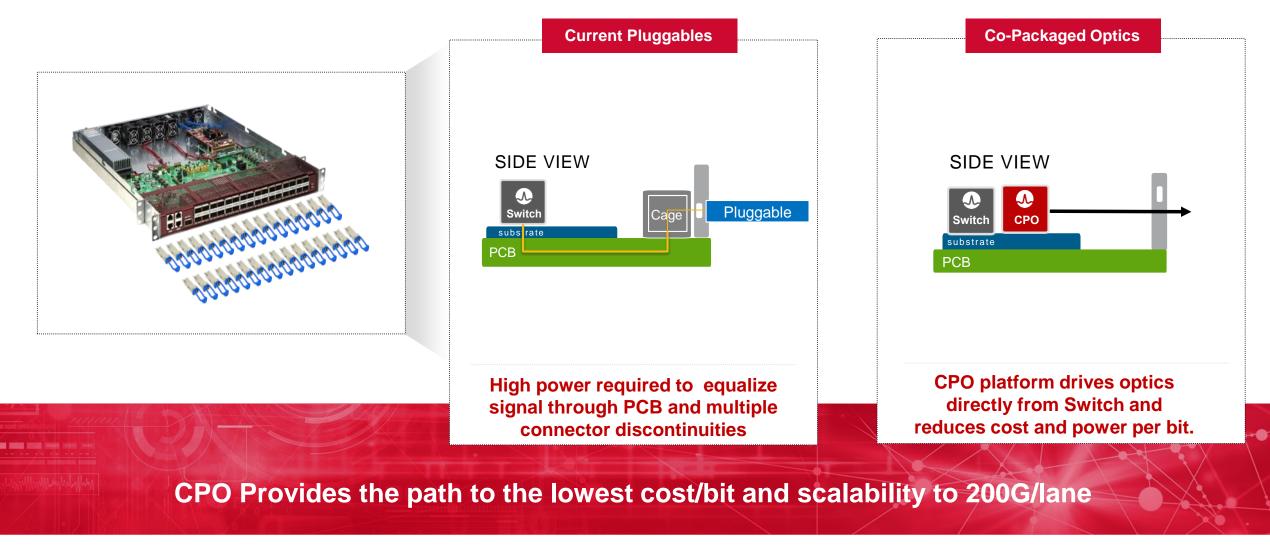
Co-Packaged Optics vs. Pluggables



CPO provides Lower Power, Architecture Scaling to 200G/lane, 50% less components



Current Market Solution for Network Connectivity: Pluggables

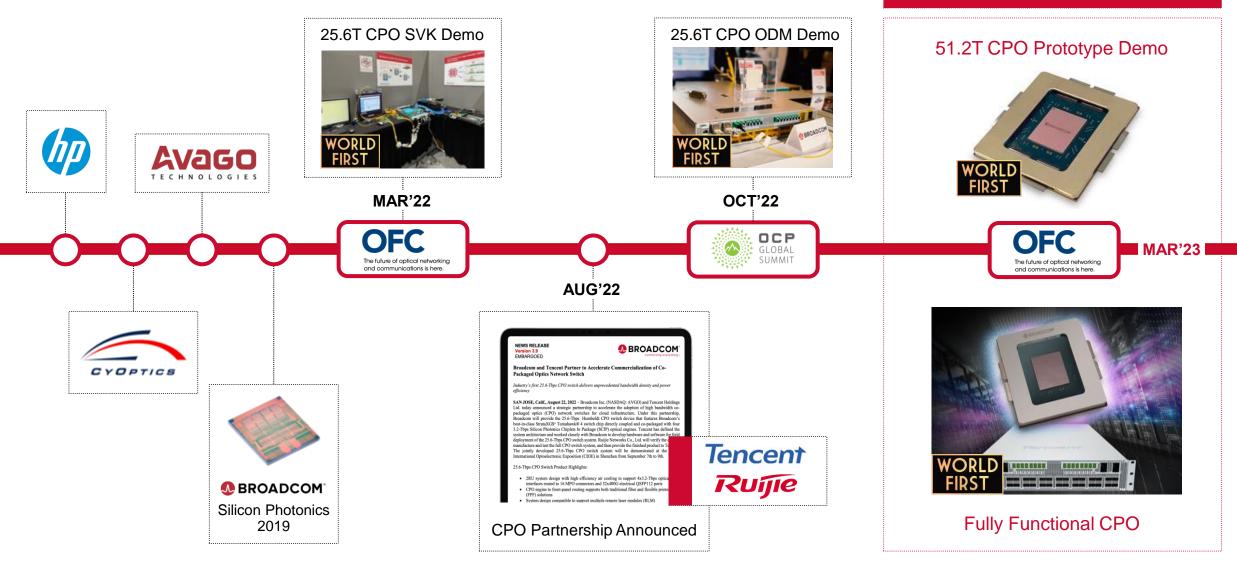






Broadcom's CPO Timeline...

ANNOUNCING TODAY





Broadcom's Disruptive Silicon + Photonics Platform ...



Highest Density Photonic Integrated Circuits



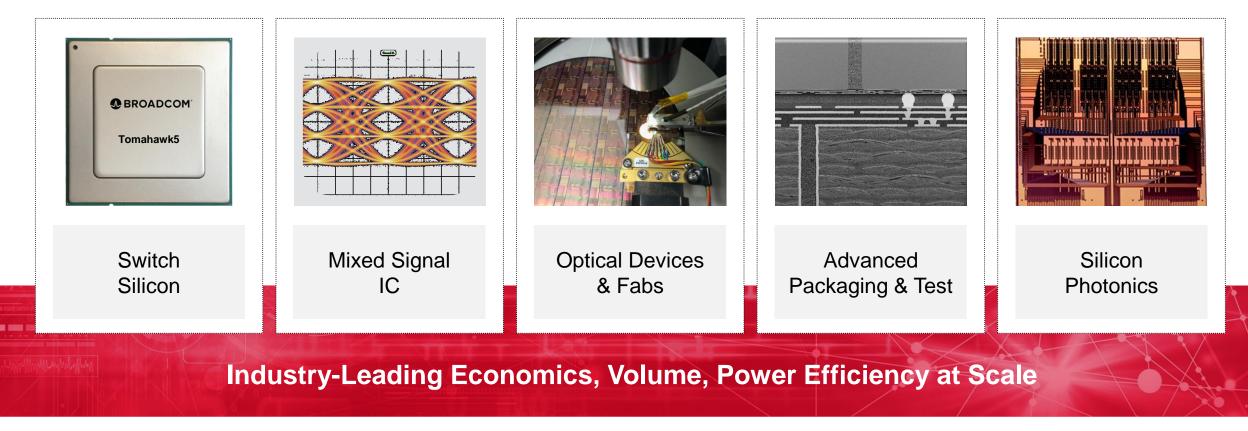
Advanced Semiconductor Packaging

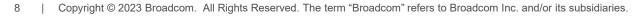


Fiber Connectivity



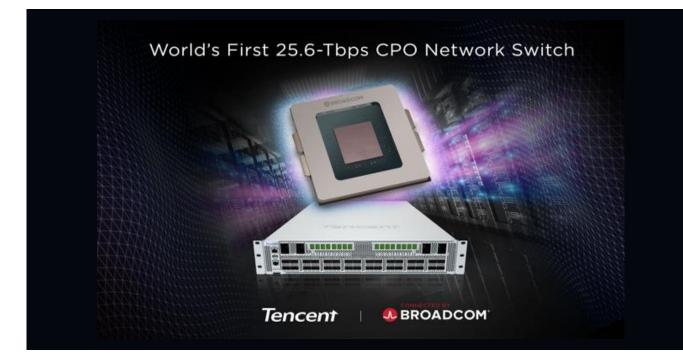
Best-in-Class SerDes







Tomahawk 4 – Humboldt 25.6T CPO



The future of optical networking and communications is here.

2023 Performance Demonstration

Final 25.6T CPO qualification systems shipping to end-customer

- CPO boxes are fully compliant
- Error free across all 128 lanes

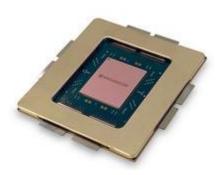
25.6T CPO Power	Units	Measured Result
TH4 Power	W	367
CPO Power (128 lanes)	W	102
Air Temp	С	24





Tomahawk 5 – Bailly 51.2T CPO

Bailly CPO

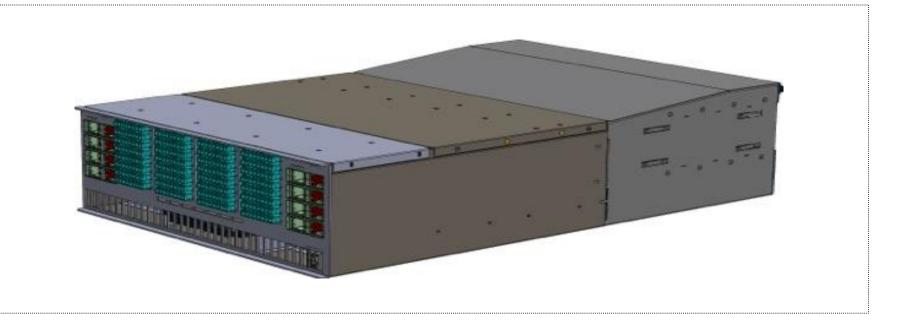


OFC

The future of optical networking and communications is here.

2023 Performance Demonstration





51.2T Switch FR4

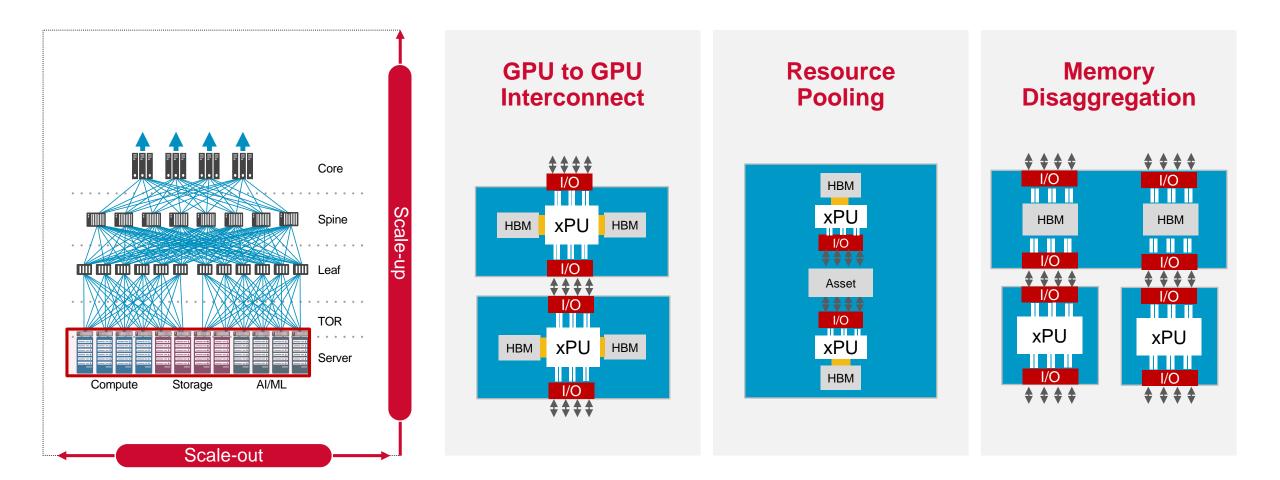
8 Silicon Photonic Engines @ 6.4T (64ch)

51.2T CPO links, no electrical links

Optical Power: 5.5W/800G



...will Launch the Industry's Explosive Adoption of the Integrated Optical Interconnect





BROADCOM[®] connecting everything •