

TECHNOLOGY INNOVATION BRIEFING

March 17, 2026

Omni Hotel, Los Angeles

FORWARD-LOOKING STATEMENTS

This presentation contains forward-looking statements relating to future events and expectations, including our expectations regarding our estimates and projections for our business outlook, each of which is based on certain assumptions and contingencies. The forward-looking statements are made pursuant to the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995 and relate to the Company's performance on a going-forward basis. The forward-looking statements in this investor presentation involve risks and uncertainties, which could cause actual results, performance, or trends to differ materially from those expressed in the forward-looking statements herein or in previous disclosures.

The Company believes that all forward-looking statements made by it in this presentation have a reasonable basis, but there can be no assurance that management's expectations, beliefs, or projections as expressed in the forward-looking statements will actually occur or prove to be correct. In addition to general industry and global economic conditions, factors that could cause actual results to differ materially from those discussed in the forward-looking statements in this presentation include but are not limited to: (i) the failure of any one or more of the assumptions stated herein to prove to be correct; (ii) changes in demand in the Company's end markets along with the Company's ability to respond to such market changes; (iii) risks relating to future integration and/or restructuring actions; (iv) fluctuations in purchasing patterns of customers and end users; (v) the ability of the Company to retain and hire key employees; (vi) the terms of the Company's indebtedness and ability to service such debt; (vii) the timely release of new products and acceptance of such new products by the market; (viii) the introduction of new products by competitors and other competitive responses; (ix) the risks to realizing the benefits of investments in R&D and commercialization of innovations; (x) the risks that the Company's stock price will not trade in line with industrial technology leaders; (xi) the impact of trade protection measures, such as import tariffs by the United States or retaliatory actions taken by other countries; and/or (xii) the risks relating to forward-looking statements and other "Risk Factors" identified from time to time in our filings with the Securities and Exchange Commission ("SEC"), including our Annual Report on Form 10-K for the fiscal year ended June 30, 2025, and our subsequently filed Quarterly Reports on Form 10-Q, which filings are available from the SEC. The Company disclaims any obligation to update information contained in these forward-looking statements, whether as a result of new information, future events or developments, or otherwise.

This presentation contains non-GAAP financial measures and key metrics relating to the Company's past performance. We believe the presentation of these non-GAAP financial measures enhances investors' overall understanding of our historical financial performance and assists investors in comparing our performance across reporting periods. These non-GAAP financial measures are in addition to, and not as a substitute for or superior to, measures of financial performance prepared in accordance with U.S. GAAP. There are a number of limitations related to the use of these non-GAAP financial measures versus their nearest GAAP equivalents. For example, other companies may calculate non-GAAP financial measures differently or may use other measures to evaluate their performance, all of which could reduce the usefulness of our non-GAAP financial measures as tools for comparison. As required by Regulation G, we have provided reconciliations of those measures to the most directly comparable GAAP measures in the section captioned "GAAP to NON-GAAP RECONCILIATION." The Company has not provided a quantitative reconciliation of forward-looking non-GAAP gross margin percentage, non-GAAP operating expenses, non-GAAP tax rate and non-GAAP earnings per share, because we cannot, without unreasonable efforts, forecast certain items required to develop comparable GAAP measures. These items include, without limitation, restructuring charges; integration, site consolidation and other expenses; foreign exchange gains (losses); and share based compensation expense. The variability of these items could significantly impact our future GAAP financial results and we believe that the inclusion of any such reconciliations would imply a degree or precision that could be confusing or misleading to investors.

AGENDA



Jim Anderson
Chief Executive Officer

Overview



Dr. Julie Sheridan Eng
Chief Technology Officer

Scale Out & Scale Up



Dr. Beck Mason
EVP, Semiconductor Devices

Lasers & InP Capacity



Dr. Sanjai Parthasarathi
Chief Marketing Officer

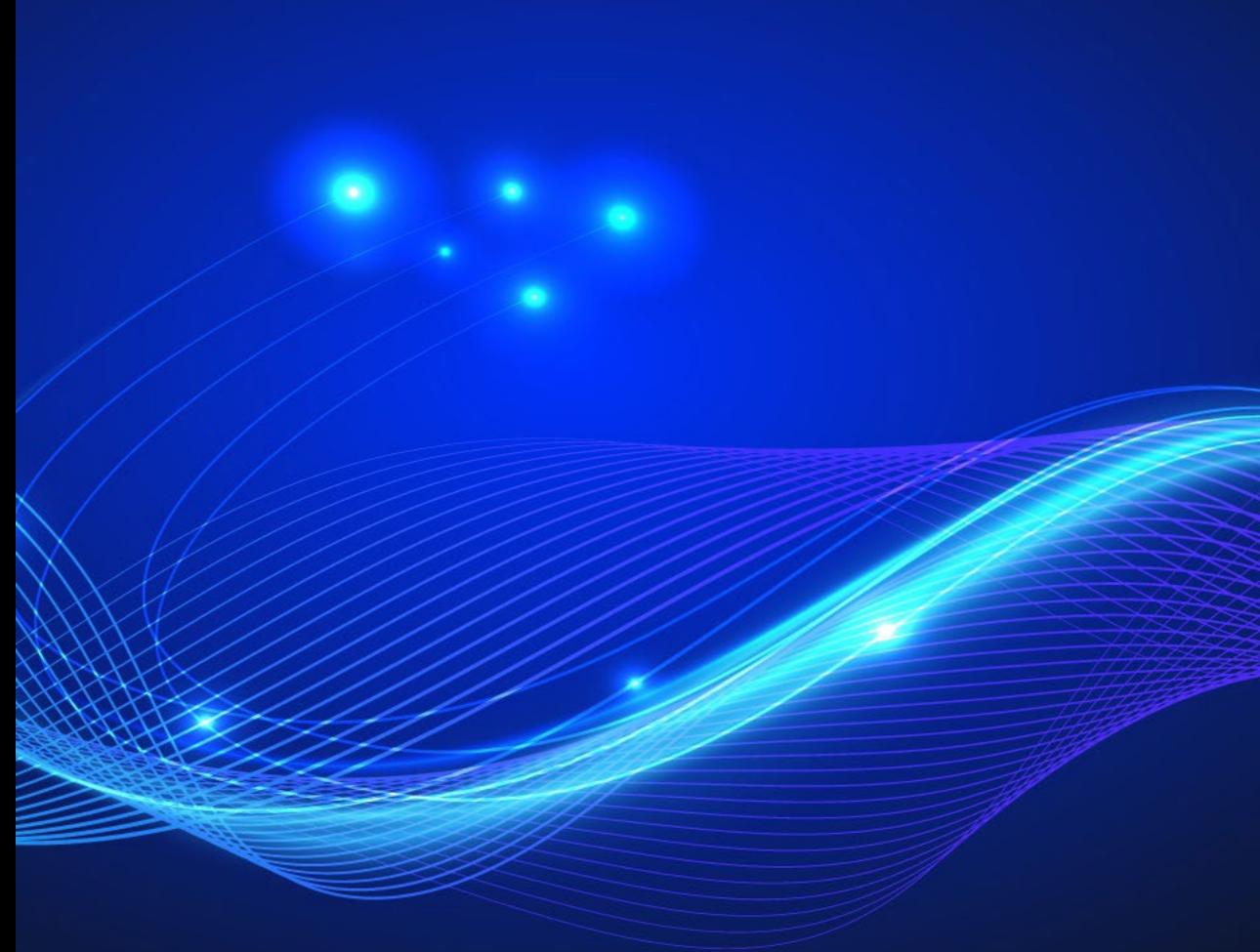
Scale Across

TECHNOLOGY INNOVATION BRIEFING 2026

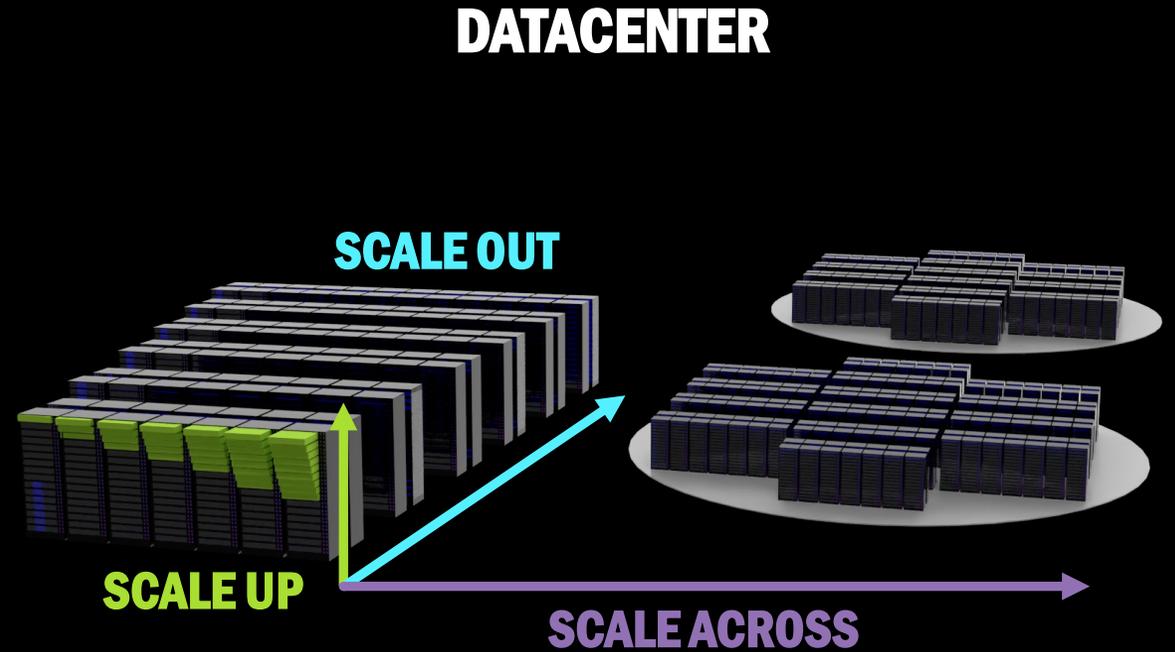
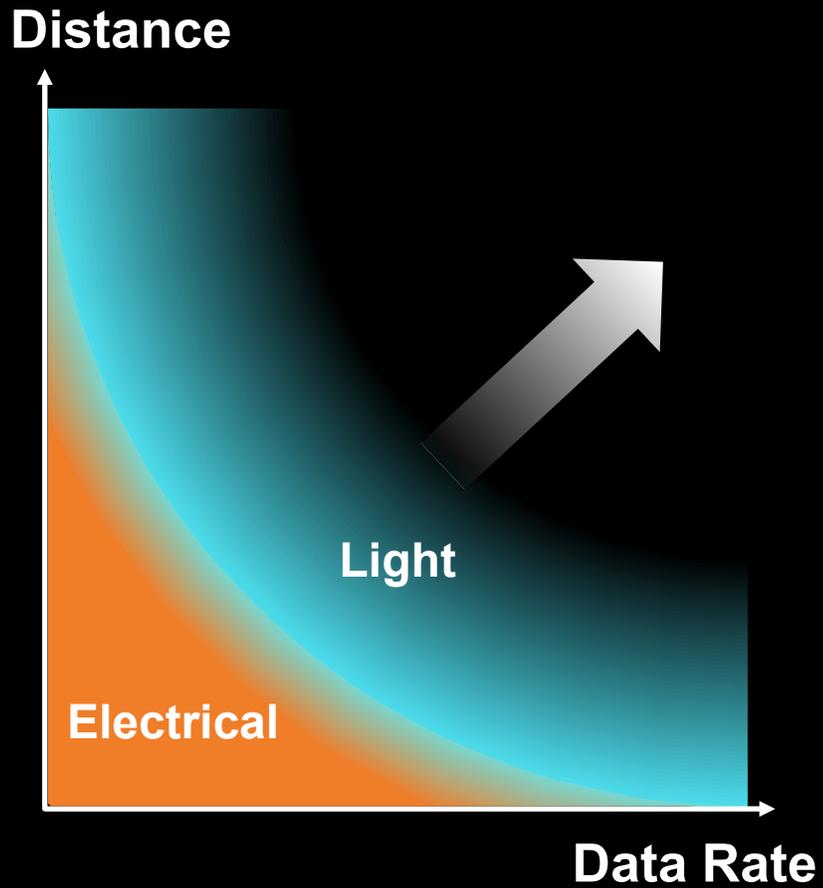
Photonics is the Fabric

Jim Anderson

Chief Executive Officer



PHOTONS ARE THE FABRIC OF AI DATACENTERS



ENTERING A NEW PHASE OF ACCELERATED GROWTH

Existing Growth Engines

\$50B+ SAM

Transceivers
1.6T, 3.2T, 6.4T



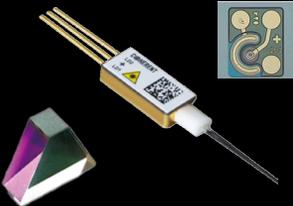
DCI Transceivers
ZR/ZR+



Transport/Transmission



Optical Components



SAM estimates are for calendar 2030 based on 3rd party and internal estimates.

ENTERING A NEW PHASE OF ACCELERATED GROWTH

New Growth
Engines

Adding \$20B+
Incremental SAM

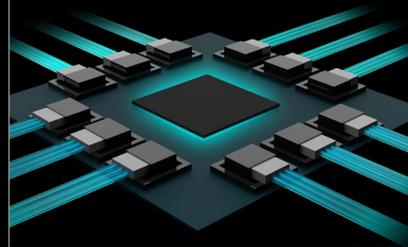
New Revenue ----->

Optical Circuit Switch



Now

CPO/NPO



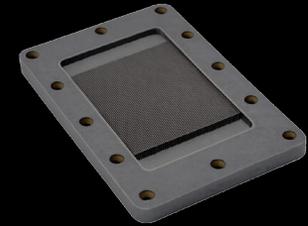
H2 2026

Multi-rail



H1 2027

Thermal Solutions



H2 2027

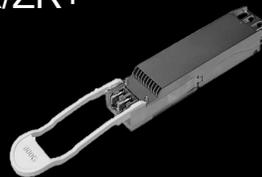
Existing Growth
Engines

\$50B+ SAM

Transceivers
1.6T, 3.2T, 6.4T



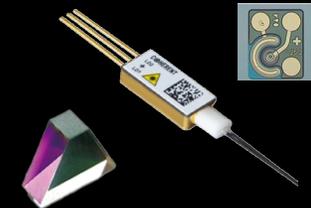
DCI Transceivers
ZR/ZR+



Transport/Transmission



Optical Components



SAM estimates are for calendar 2030 based on 3rd party and internal estimates.



NVIDIA and Coherent Announce Strategic Partnership to Develop Optics Technology to Scale Next-Generation Data Center Architecture

KEY GROWTH ENGINES



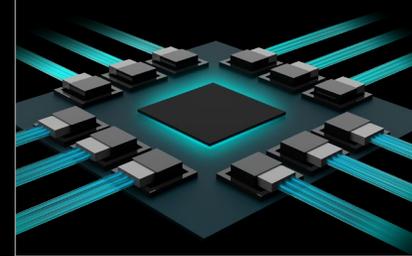
SCALE OUT & SCALE UP

Dr. Julie Sheridan Eng
Chief Technology Officer

Transceivers
1.6T, 3.2T, 6.4T



CPO/NPO



Optical Circuit Switch



KEY GROWTH ENGINES



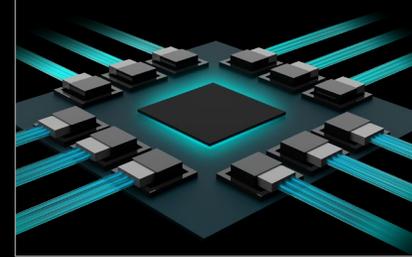
SCALE OUT & SCALE UP

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Chief Technology Officer

Transceivers
1.6T, 3.2T, 6.4T



CPO/NPO



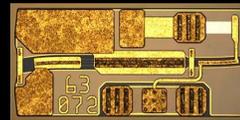
Optical Circuit Switch



LASERS & InP CAPACITY

Dr. Beck Mason
EVP, Semiconductor Devices

InP EML



InP CW/ELS



200G VCSELs



KEY GROWTH ENGINES



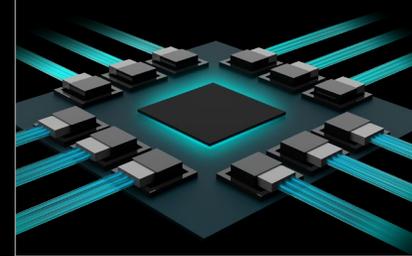
SCALE OUT & SCALE UP

Dr. Julie Sheridan Eng
Chief Technology Officer

Transceivers
1.6T, 3.2T, 6.4T



CPO/NPO



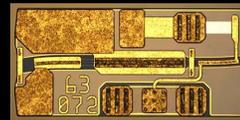
Optical Circuit Switch



LASERS & InP CAPACITY

Dr. Beck Mason
EVP, Semiconductor Devices

InP EML



InP CW/ELS



200G VCSELs



SCALE ACROSS

Dr. Sanjai Parthasarathi
Chief Marketing Officer

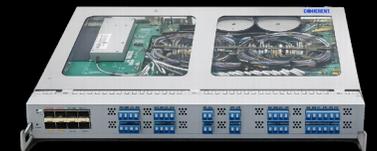
DCI Transceivers
ZR/ZR+



Transport/Transmission



Multi-rail





NEXT PHASE OF ACCELERATED GROWTH

**Expansion of Photonics
Across the Datacenter**

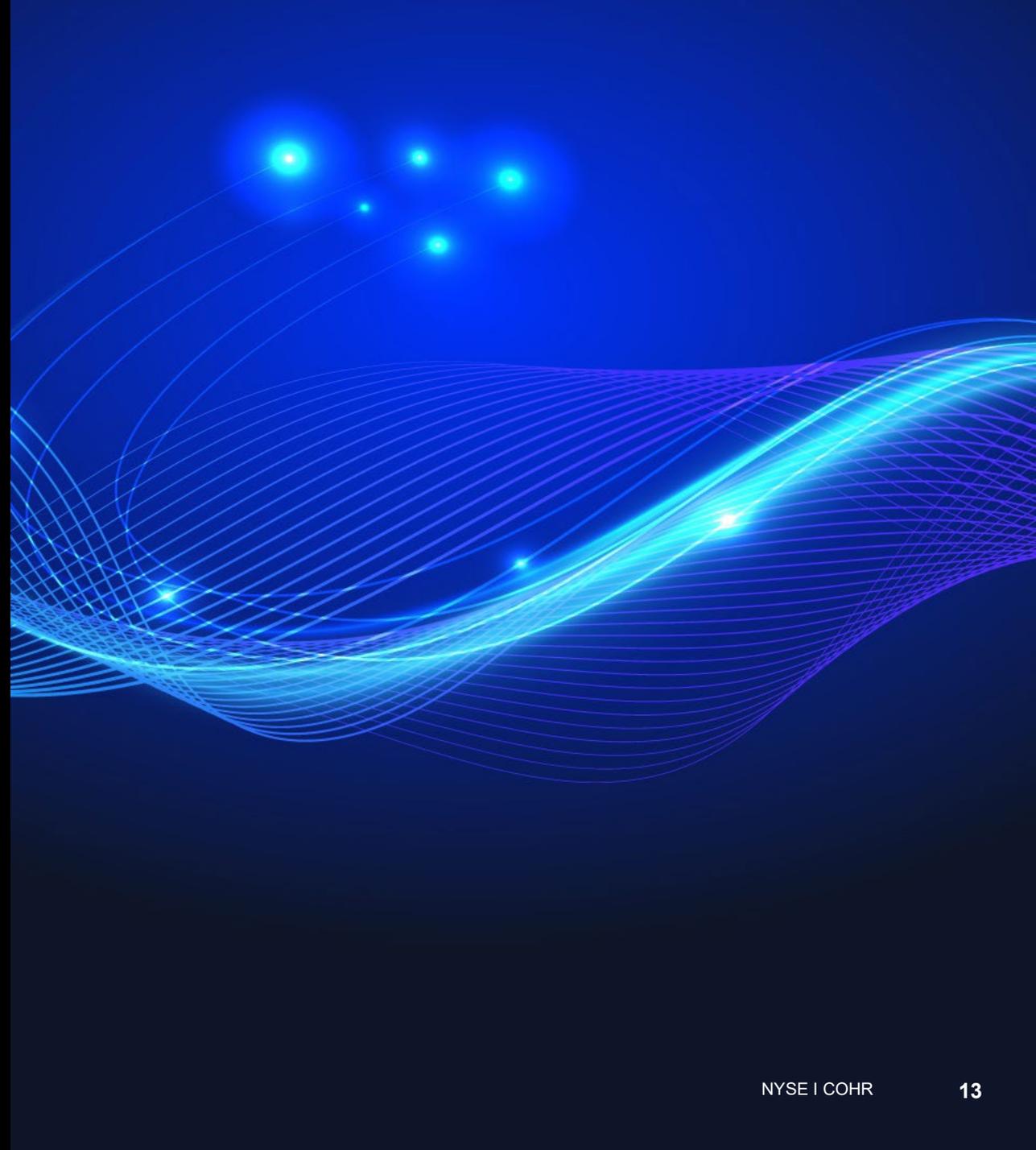
**Broadest and Deepest
Photonics Portfolio**

**Photonic Manufacturing
Expertise and Scale**

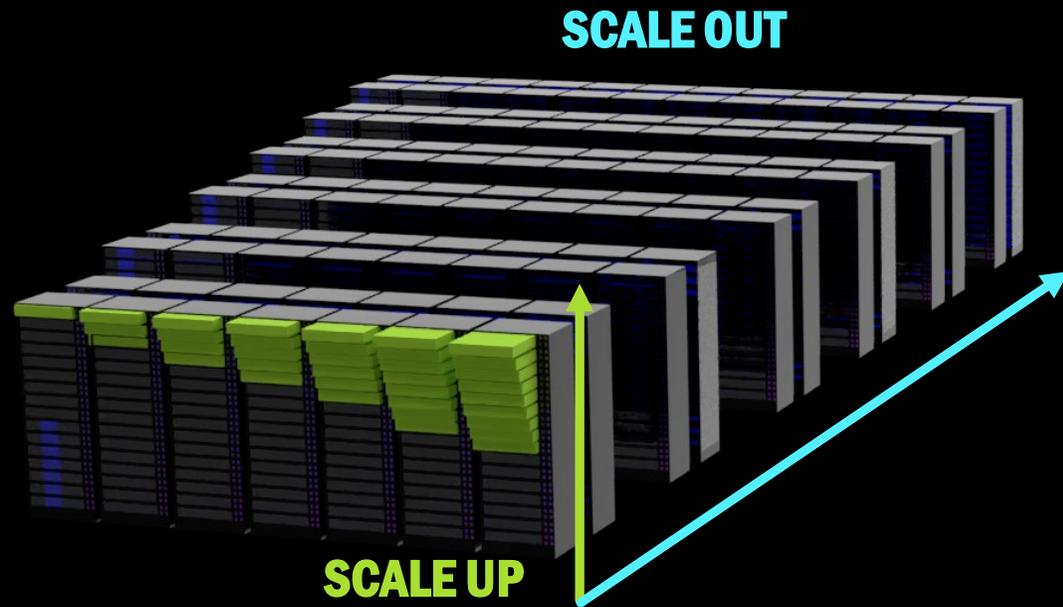
TECHNOLOGY INNOVATION BRIEFING 2026

Scale Out & Scale Up

Dr. Julie Sheridan Eng
Chief Technology Officer



EXPANDING ROLE OF OPTICS IN THE DATACENTER



Scale Out

- Heterogeneous environment
- Distances 10 m to 10 km
- Flexibility very important
- Pluggable transceivers primary form factor

Scale Up

- Closed system today, < 10 m
- Copper today
- Density, cost, and power prioritized
- Transition toward co-packaged optics (CPO)
- SAM expansion for optics

OPTICS POWERS THE DATACENTER

Pluggable Transceivers Offer Flexibility

- Robust roadmap of increasing bandwidth density
- Standardized, multi-vendor ecosystem
- Easily serviceable
- Defers architectural commitment
- Retains “pay as you grow”

Co-packaged Optics Drives SAM Expansion

- Miniaturized transceiver, closer to switch/xPU chip
- Reduces power consumption, latency, and cost
- Increases faceplate density
- Addresses architectural needs of scale up



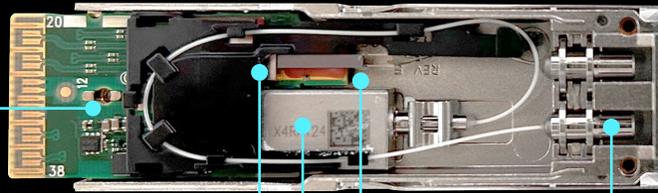
Pluggable Transceivers



Co-packaged Optics (CPO)

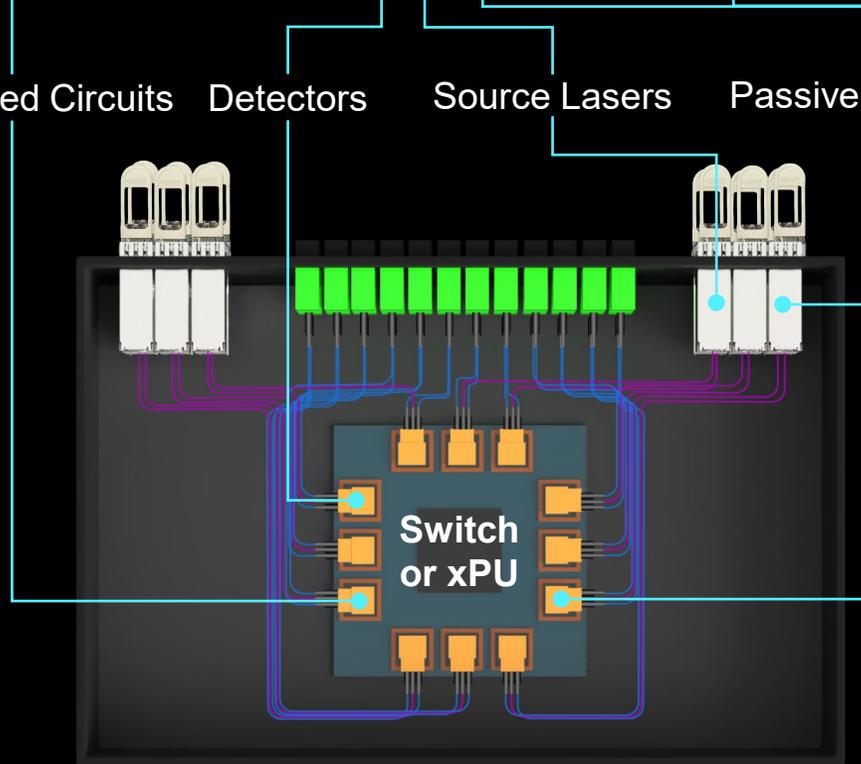
DEEP DATACOM TECHNOLOGY STACK IS A COMPETITIVE ADVANTAGE

OPTICAL TRANSCEIVER



Integrated Circuits Detectors Source Lasers Passive Optics

CPO



Capability	Type	Pluggable Transceiver	CPO
Assembly and Test	Components and Modules	✓	✓
Sources	GaAs VCSELs	✓	✓
	InP EMLs	✓	n/a
	InP CW Lasers	✓	✓
	Silicon Photonics	✓	✓
Detectors	GaAs Detectors	✓	✓
	InP Detectors	✓	✓
Passive Optics	Isolators	✓	✓
	Lens Arrays	✓	✓
	Optical Multiplexer Demultiplexer	✓	✓
Thermal Control	Thermoelectric Coolers	✓	✓
Integrated Circuits	Laser Drivers	✓	✓
	TIA	✓	✓
	External Laser Source	n/a	✓
	Polarization-maintaining Fiber	n/a	✓
	Fiber Attach Unit	n/a	✓

MARKET-LEADING ROADMAP FOR PLUGGABLE TRANSCEIVERS

800G
Continued
Ramp

1.6T
Accelerating
Ramp

3.2T
In
Development

6.4T
In
Development

Demo
OFC
2026

**INDUSTRY
FIRST**

Demo
OFC
2026

Demo
OFC
2026



VCSEL, EML & CW solutions
OCS Optimized Transceivers

Full suite of 1.6T transceivers
Demonstrated TRO and LRO
1.6T FRO and TRO with three DSP vendors

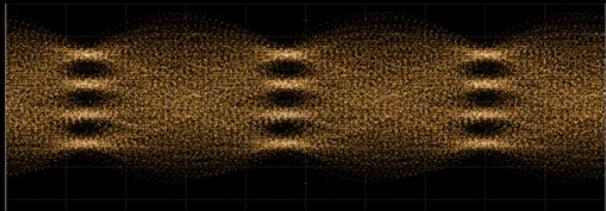
400G differential EML for
3.2T Transceiver
400G end-to-end link
demo

New XPO Form Factor for
High Density
OIF HD Connector Project
for 400G/lane

DRIVING THE FUTURE OF PLUGGABLE TRANSCEIVERS

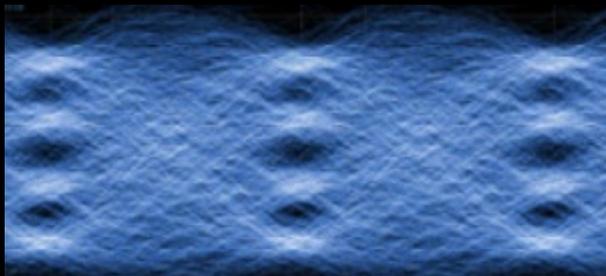
Increasing Data Rate

400G Full Link Demo with InP EML



- Coherent InP differential 400G EML and 400G InP Photodiode

400G Eye with Silicon Photonics



- Industry first: 400G link with internally designed Silicon Photonics

Increasing Density

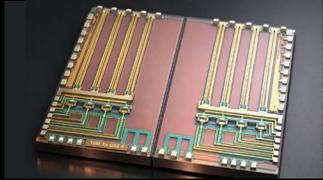
Transceiver Demo in new XPO form factor



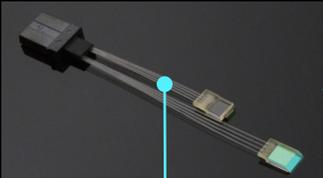
- Coherent InP CW laser with 200G/lane Silicon Photonics PIC
- Integrated liquid cooling
- Supports data rates up to 12.8 Tb/s (64 x 200G)
- Supporting OIF High Density Form Factor, data rates up to 25.6Tb/s (64 x 400G)

CPO IS A SAM EXPANSION AS OPTICS REPLACE COPPER

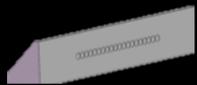
Silicon Photonics PIC



Fiber Attach Unit (FAU)



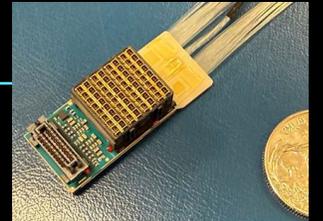
Prism Micro Lens Array



Polarization-Maintaining Fiber



CPO/NPO Module



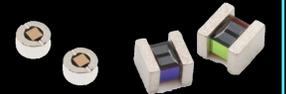
External Laser Source



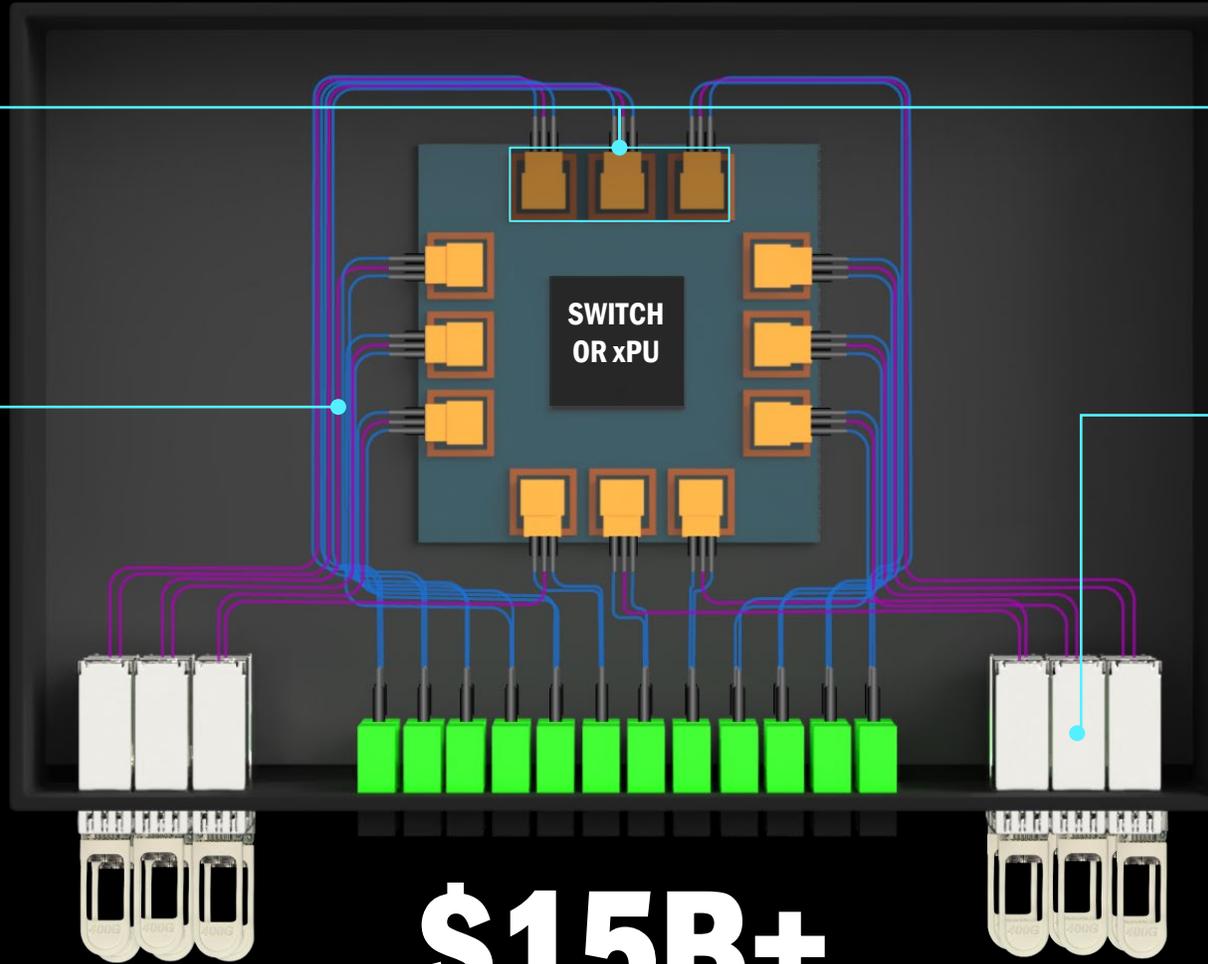
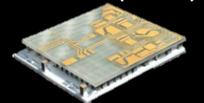
InP CW Laser



Isolator



Thermoelectric Cooler (TEC)



\$15B+

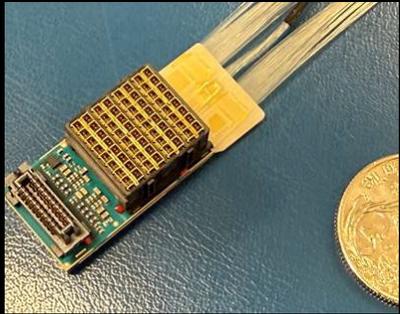
CPO SAM by 2030

Note: Lightcounting and internal estimates

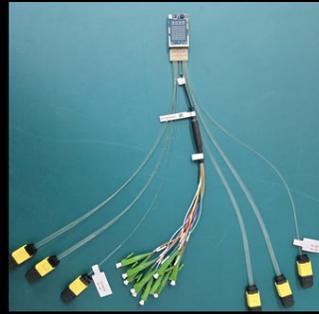
BROADEST AND DEEPEST SOLUTION SET FOR CPO AND NPO

Silicon Photonics/InP CW Laser

6.4Tb/s Silicon Photonics
Socketed CPO Demo
15Gb/s/mm²

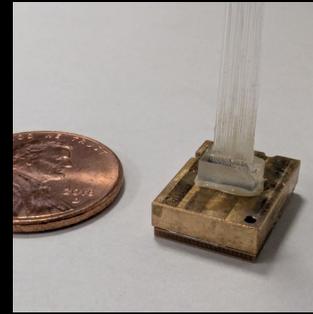


Fiber Attach Unit, Micro
Lens Array, Polarization-
Maintaining Fiber



VCSEL-Based CPO/NPO

2D Array Datacom VCSELs
VCSEL-based NPO



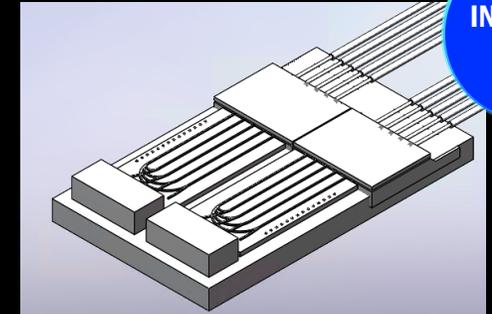
4Tb/s VCSEL-based NPO form factor,
OFC 2025



Path to 1 pJ/bit

400G InP CPO Engine with SOA

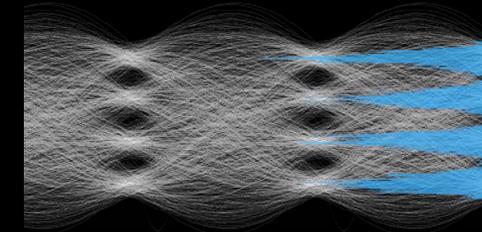
4 x 400G InP MZ with integrated SOA



INDUSTRY
FIRST

CPO Demo with internal ELS, InP CW laser,
isolator, TEC, PM Fiber, V-groove

400G Eye from InP CPO Engine



Demo
OFC
2026

ELS with internal InP CW laser, isolator, TEC



Demo
OFC
2026

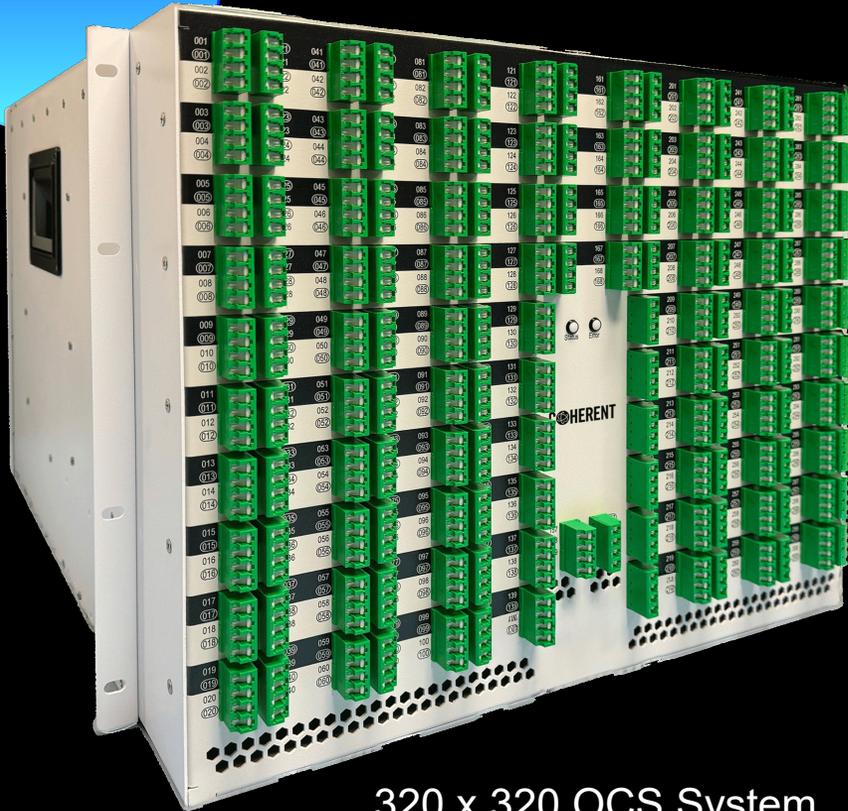
OPTICAL CIRCUIT SWITCH (OCS) DRIVES SAM EXPANSION



Software

Software Stack by Coherent

Integrated software for onboard control electronics and interface to customer network management



320 x 320 OCS System

Expanding use cases

- Software-defined topology reconfiguration to improve xPU utilization and availability
- Fail-over for system resiliency and uptime
- Customer interest in scale up, scale out, spine, and scale across

Expanding customer base

- 10+ customer engagements
- Shipping into production deployments

\$4B

OCS SAM by 2030

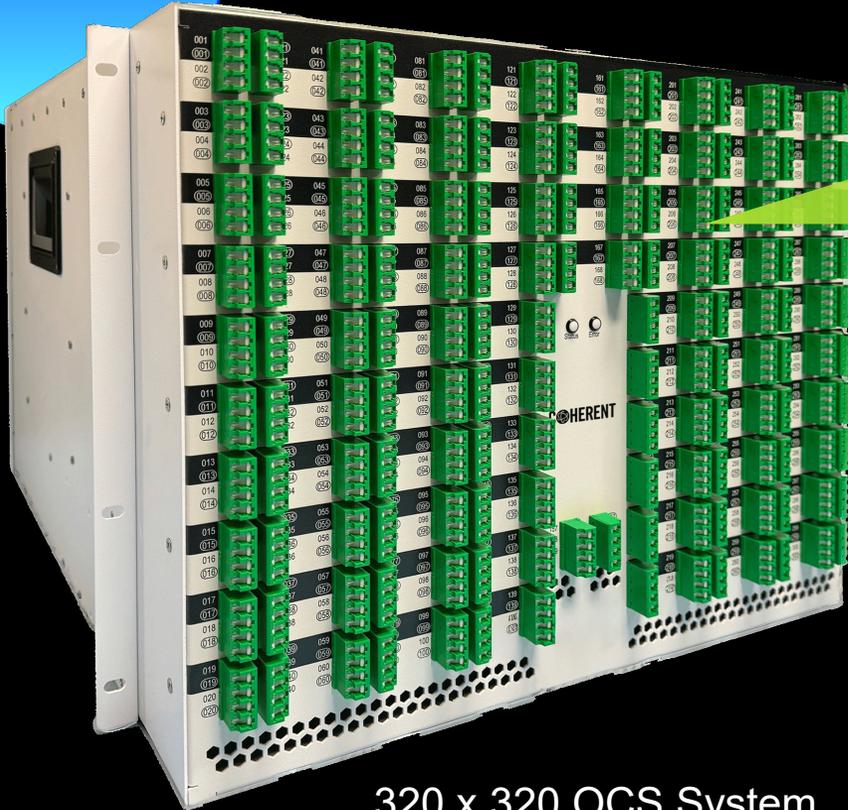
Note: OCS SAM - Signal AI and internal estimates

DEEPLY DIFFERENTIATED OPTICAL CIRCUIT SWITCH TECHNOLOGY



Software

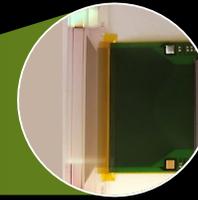
Software Stack by Coherent
Integrated software for onboard control electronics and interface to customer network management



320 x 320 OCS System

Coherent Solution

Liquid Crystal Technology

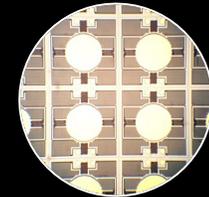


Liquid Crystal Cell

- No moving parts
 - No high-voltage components
 - Shipped into subsea applications for decades
 - Dramatically differentiated reliability
- **Strong sequential growth**
 - **Ramping capacity to meet growing demand**
 - **Shipping 64 x 64 and 320 x 320 to multiple customers**
 - **512 x 512 in development**

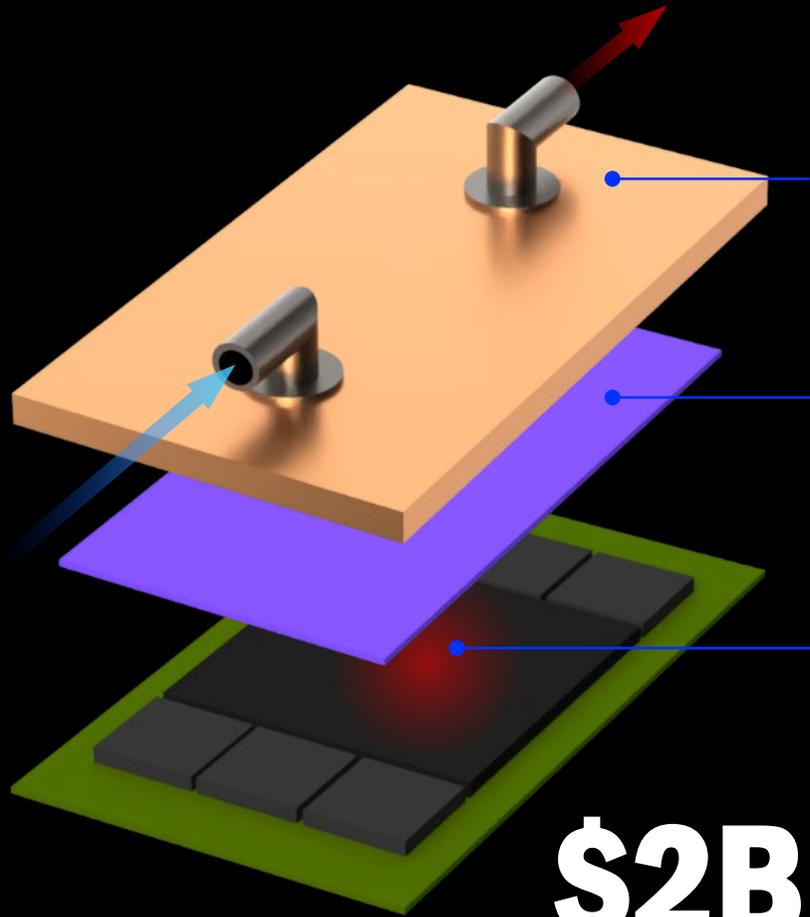
Other Solutions

Microelectromechanical Systems (MEMS)



MEMS Mirror Arrays

ADVANCED MATERIALS FOR THERMAL MANAGEMENT



\$2B
SAM by 2030

CURRENT SOLUTIONS

- 1 Cold Plates (Copper)**
Copper limited thermal conductivity
- 2 Thermal Interface Material (TIM)**
High thermal resistance between chip and cold plate
- 3 Device Substrate (Silicon)**
Poor heat spreading performance

Turning heat waste into energy
Energy harvesting

COHERENT THERMAL SOLUTIONS

Thermadite™ /Diamond Cold Plate
Thermal conductivity 2 – 5X copper

Eliminate TIM layer by Direct Bondable Diamond
Close to zero thermal resistance between cold plate and die

SiC/ Thermadite™ Substrates
Thermal conductivity 3 – 5X Silicon

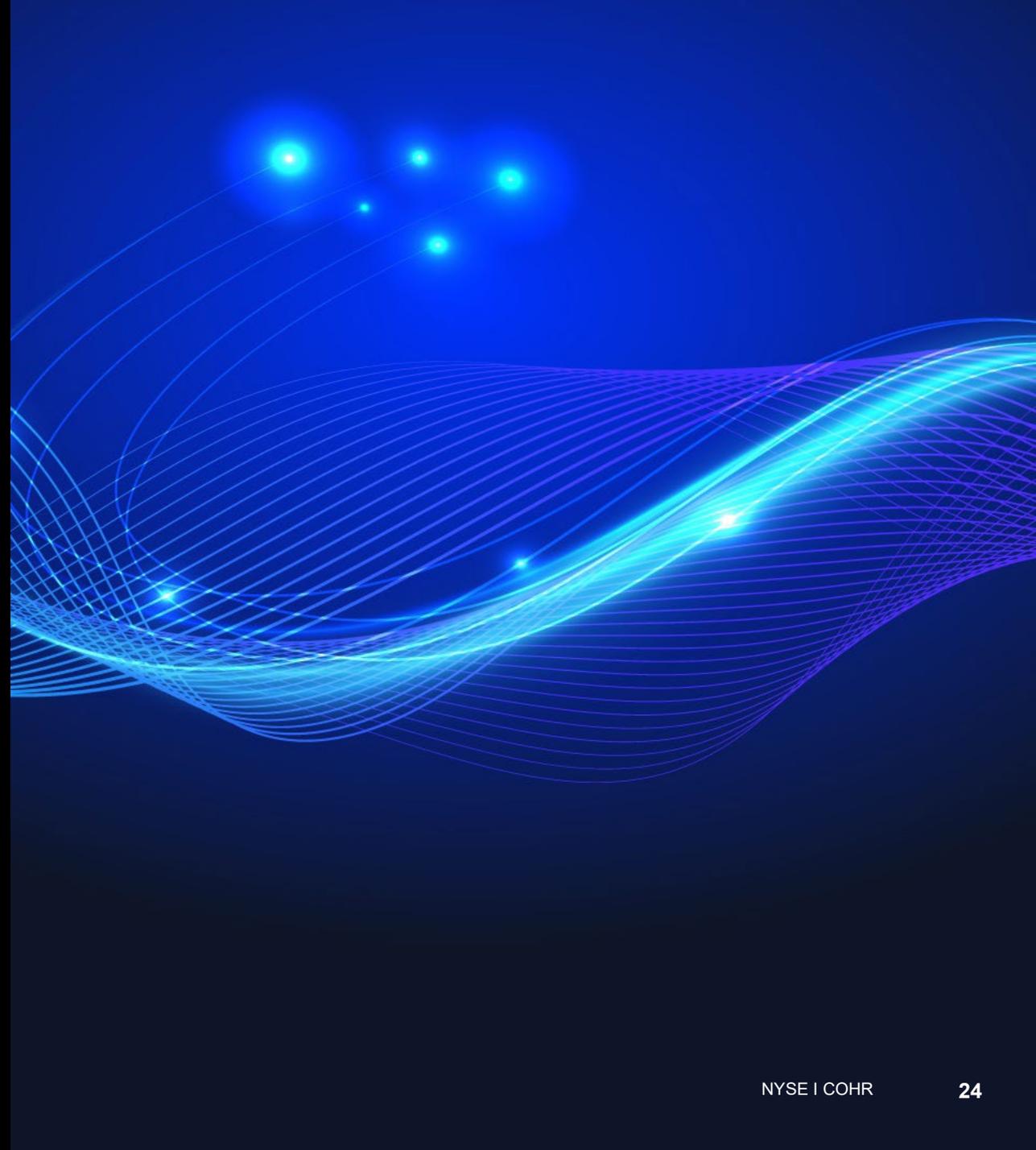
Thermoelectric Generators
Recover heat waste to energy

Note: SAM - internal estimates

TECHNOLOGY INNOVATION BRIEFING 2026

Lasers & InP Capacity

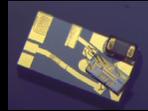
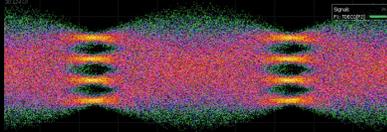
Dr. Beck Mason
EVP, Semiconductor Devices



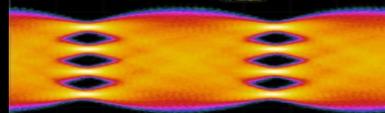
20-YEAR TECHNOLOGY LEADER: BROAD AND DEEP LASER PORTFOLIO

InP EMLs/DMLs

400 Gb/s Eye

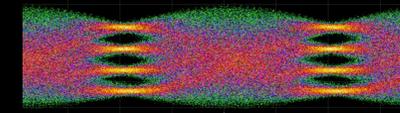


InP CW Lasers/Silicon Photonics



GaAs VCSELs

212 Gb/s Eye



- High volume producer of InP EMLs for Datacenter Transceivers
- Technology leader with demonstrated 400G EML performance

- InP CW Lasers in production for Silicon Photonics Transceivers and CPO solutions
- Delivering 400mW InP lasers for CPO applications using ELSFP

- Leading supplier of VCSELs for in-feed, also serving the broader market
- 200G/lane VCSEL-based 1.6T Transceiver demonstrated at OFC 2025



1 BILLION VCSELs
For Datacom

1/2 BILLION InP Devices

InP PRODUCTION SITES

**FREMONT,
CA**



- First InP site – operations for over 2 decades
- 3” production lines

**SHERMAN,
TX**



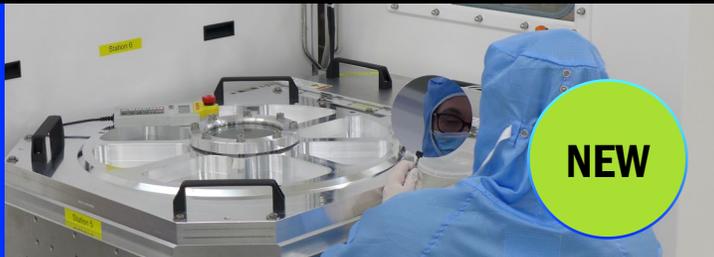
- Coherent’s largest compound semi fab
- 6” InP lines; multiple devices

**JARFALLA,
SWEDEN**



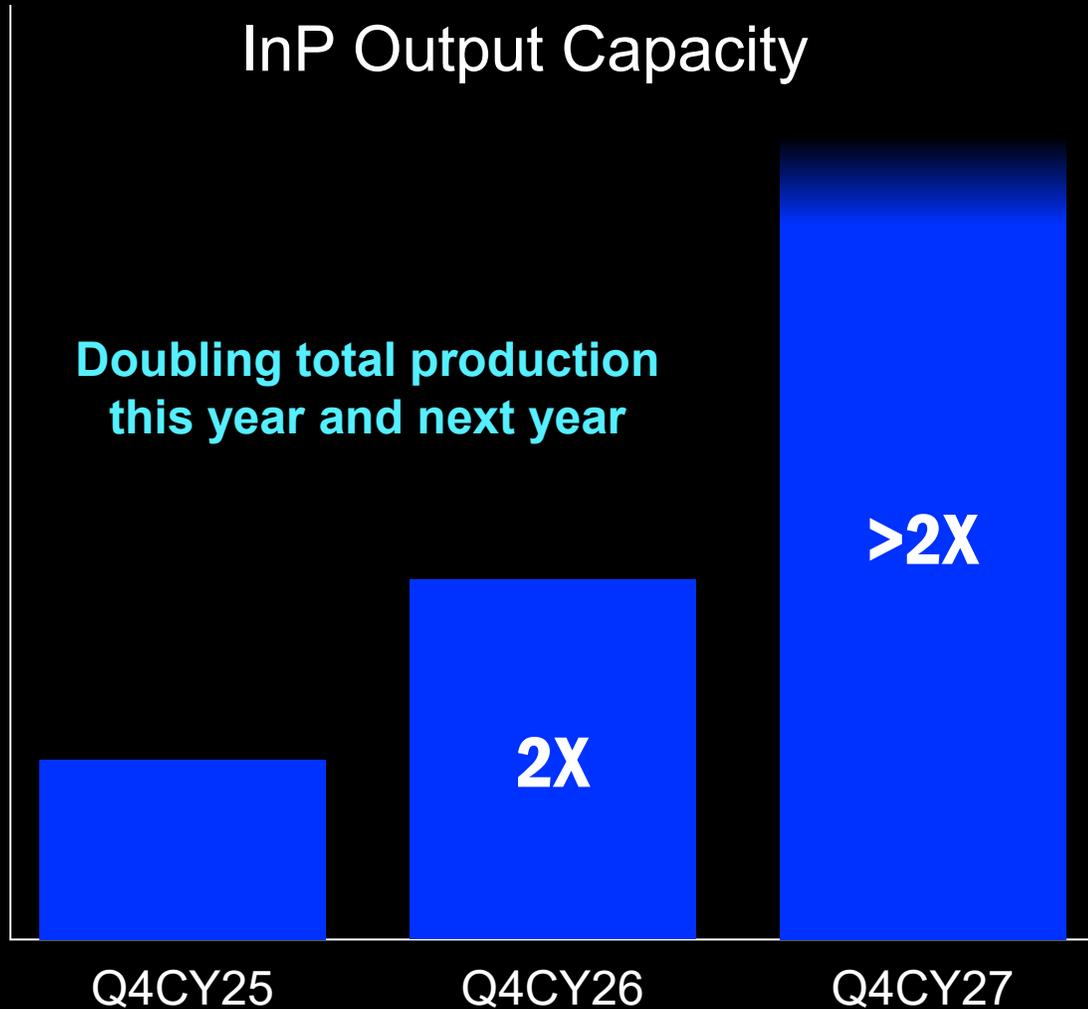
- InP fab operations for over 2 decades
- 6” InP lines; multiple devices

**ZURICH,
SWITZERLAND**



- Began as a GaAs fab – VCSELs and Edge emitters
- Latest 6” InP fab; multiple devices

GROWING InP CAPACITY

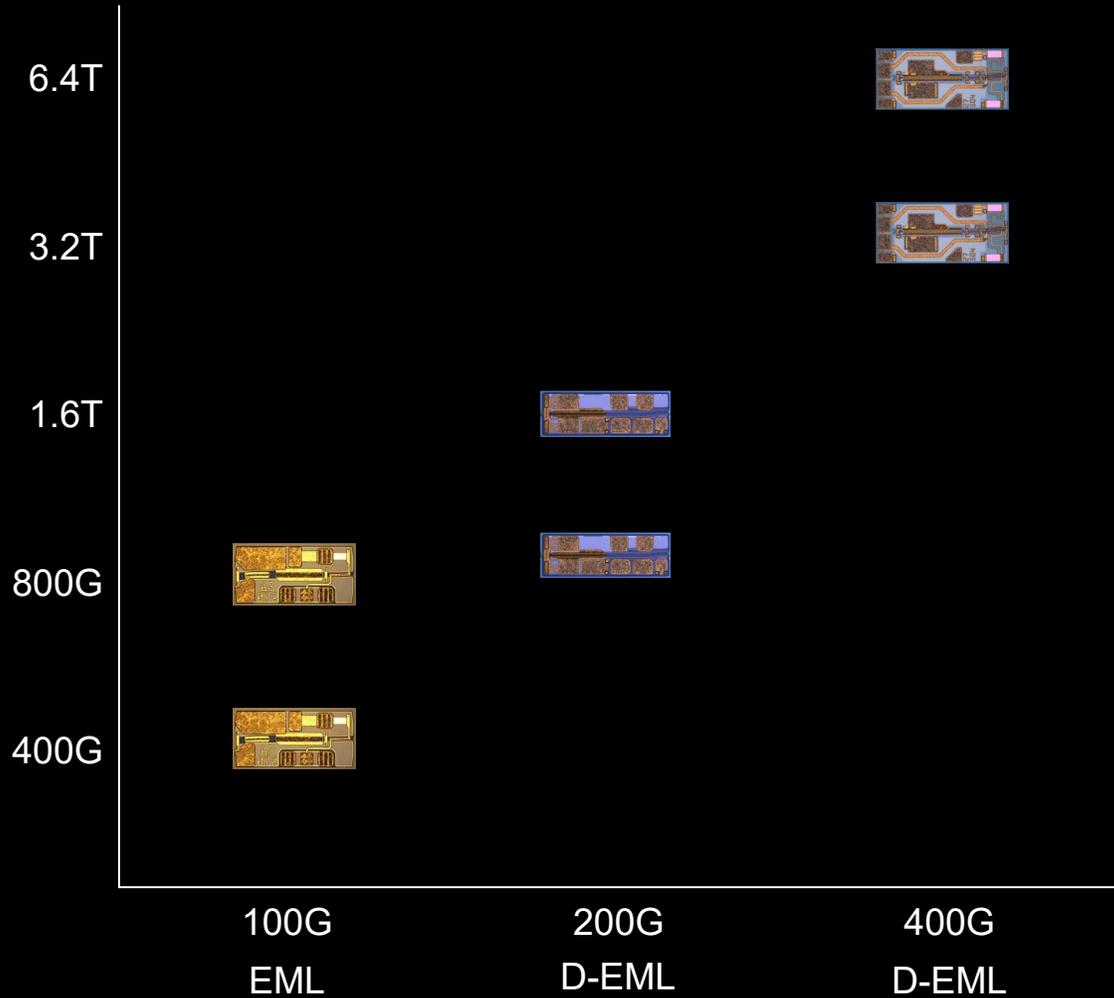


Unprecedented demand for InP devices – EMLs, CW Lasers, PDs, PICs...

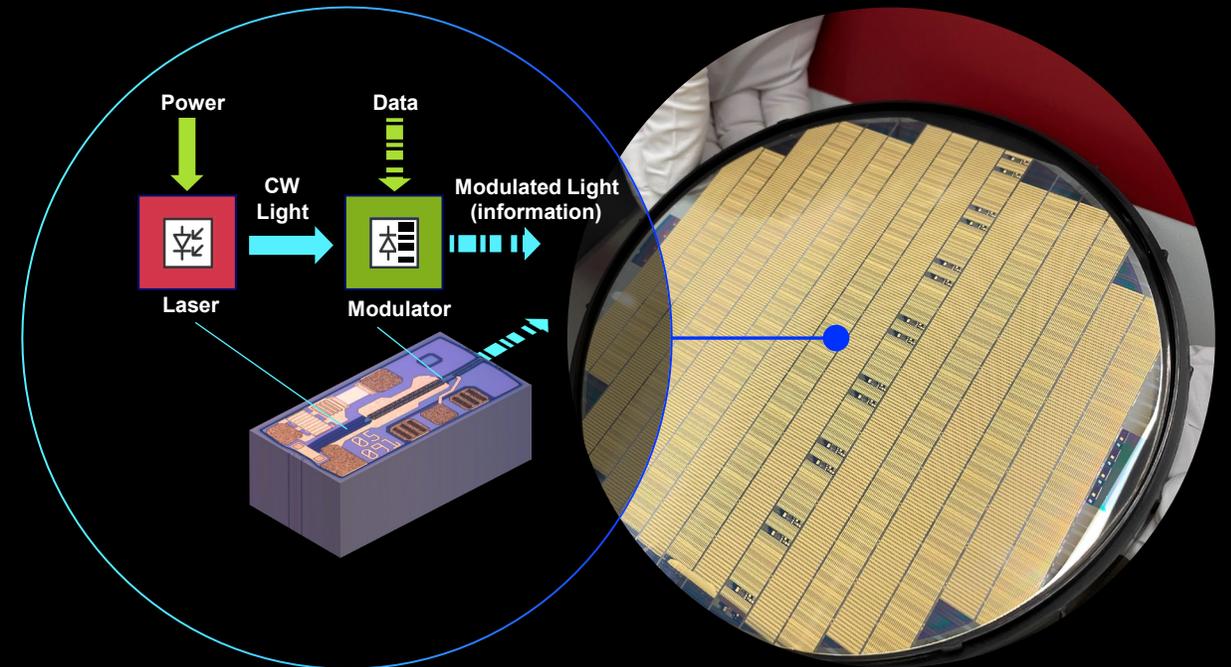
- Leading the industry with the most advanced InP lines
- First 6” InP line in volume production
- 6” InP yields higher than 3” yields
- Ramping 6” InP capacity at our wafer fabs in Texas & Sweden and adding 6” InP capacity in Switzerland
- **Production doubling in 2026 and 2027; continuing to grow capacity beyond 2027**

InP EML INNOVATION

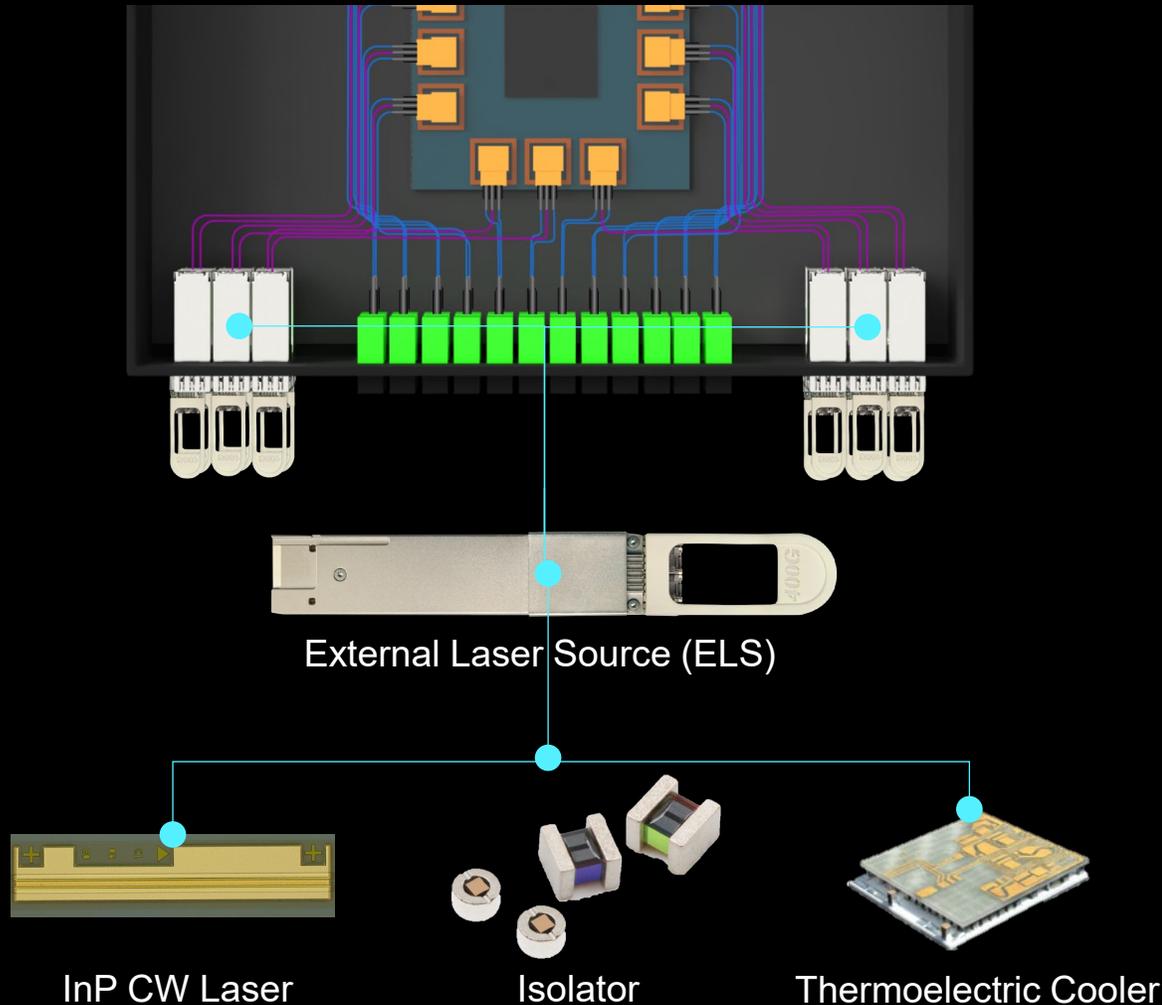
Transceivers



- Technology leadership for 100G, 200G and 400G EMLs for 800G, 1.6T, 3.2T and 6.4T transceivers
- Market Leader in 100G and 200G EMLs
- First to demonstrate 400G Differential EML
- Advanced EML designs providing the highest level of performance for demanding transceiver applications in OCS environments



RAMPING HIGH POWER CW LASERS/ELS



High Power CW DFB Lasers for Scale out and Scale up

- Producing efficient high-power lasers in high volume to power Silicon Photonic transceivers and CPO solutions
- In full production, ramping 6" InP in Sherman, Texas
- Specially designed for high yield & low noise
- Strong customer engagements
- Secured very high-volume multi-year orders from a market-leading AI datacenter customer for CPO solutions

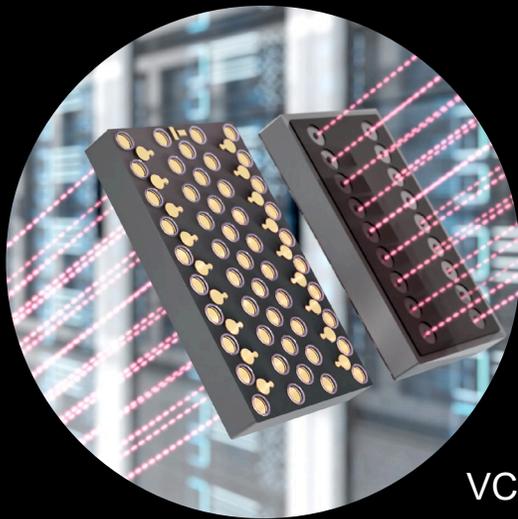
HIGH SPEED VCSELS

Coherent is a world leader in VCSEL Technology

- Delivering > 400 million VCSEL devices a year for datacenter and sensing applications

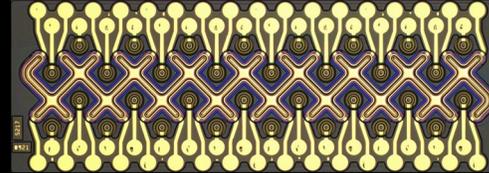
Coherent VCSELS enabling the datacenter

- Data rates up to 200Gb/s
- Array solutions for compact low-power scale up
- Single mode solutions for extended reach



VCSEL Array

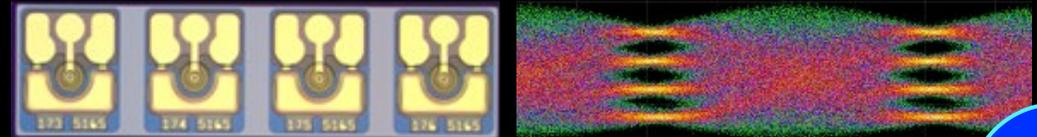
2D VCSEL Array



- Low power and cost
- Back side emitting (BSE) VCSEL array
- ~3.2 Tbps per array in PAM4
- Ideal for NPO/CPO transceivers for Scale-up
- Flip chip for easy assembly process
- On-chip integrated lenses for reduced cost
- Ongoing engagements with hyperscaler customers



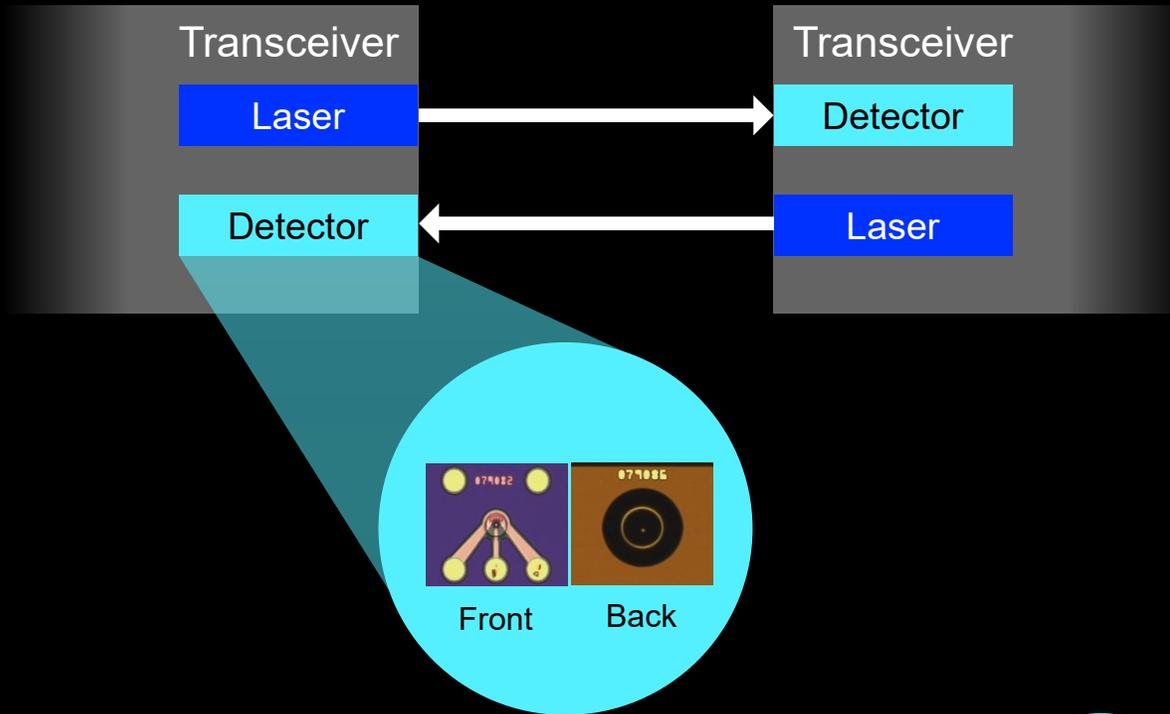
200G VCSEL



- 200G VCSEL optical link demonstrated at OFC 2025
- Qualified and available in Q4CY2026



INTERNALLY DEVELOPED PHOTODETECTORS ARE A DIFFERENTIATOR



Advantages of Deep Vertical Tech Stack

- Time to market
- Innovation
- Cost
- Supply chain resilience

Differentiation in Photodetectors (PDs):

- World's first 4x25G PD for 100G transceivers
- Custom-designed PD with integrated micro lenses for 200G/lane

Shipped

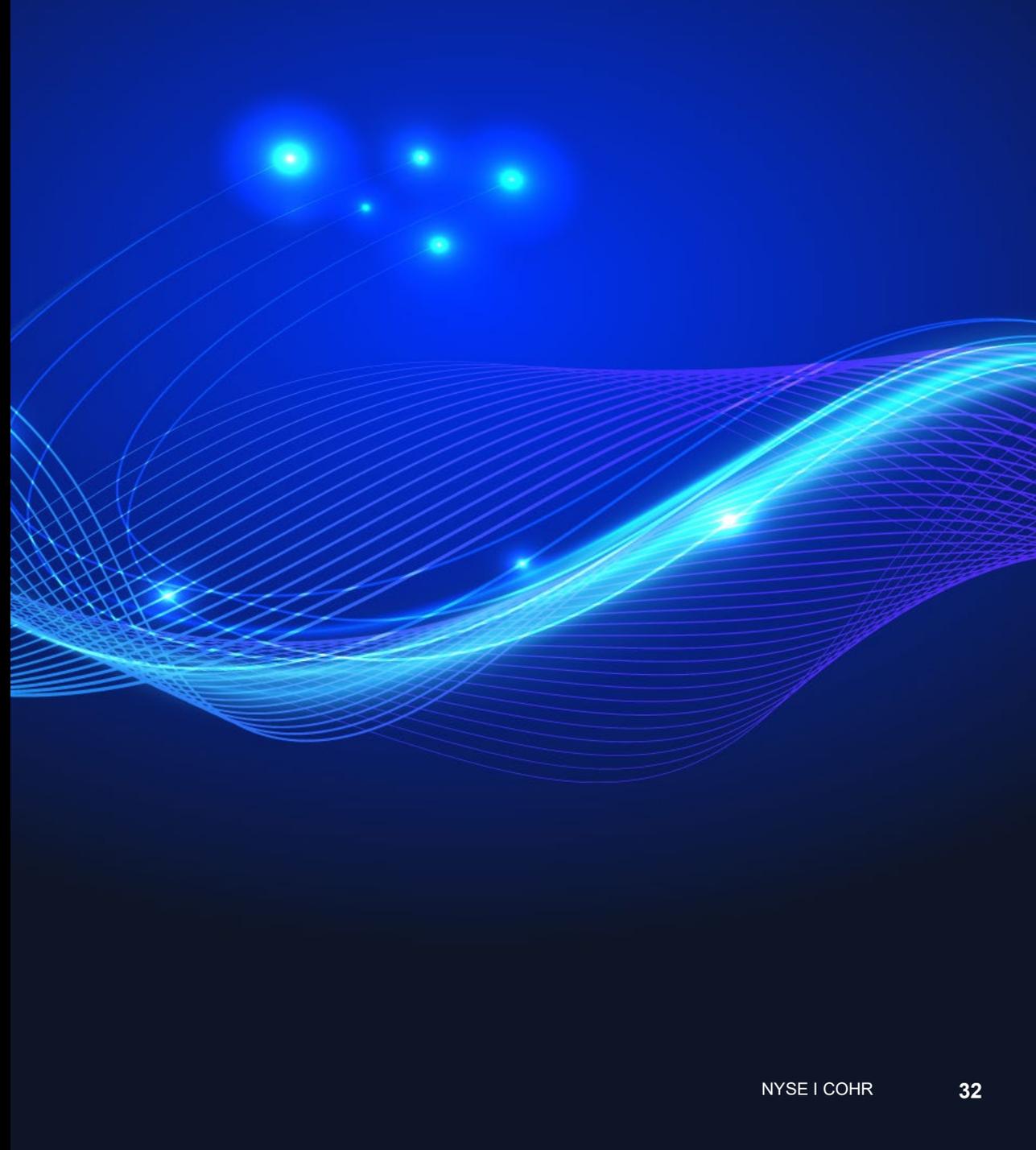
1 BILLION

InP and GaAs Photodetectors

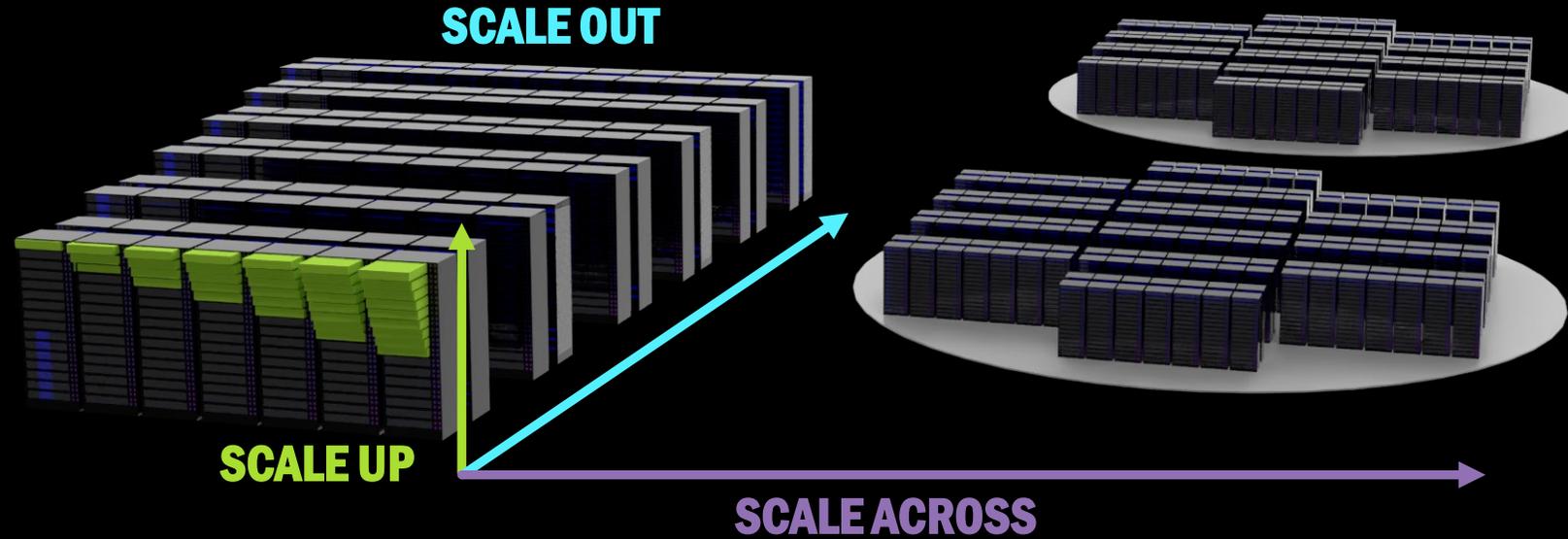
TECHNOLOGY INNOVATION BRIEFING 2026

Scale Across

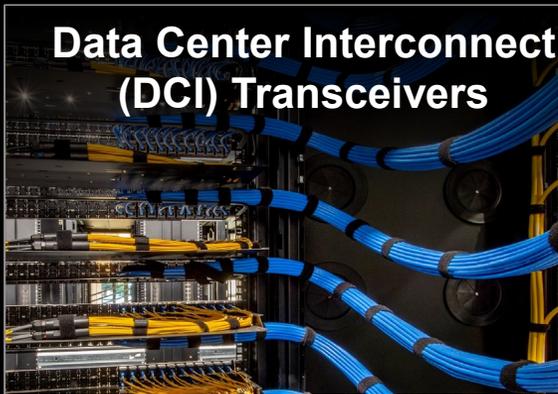
Dr. Sanjai Parthasarathi
Chief Marketing Officer



SCALE ACROSS NETWORKS



TWO CRITICAL ENABLERS OF SCALE ACROSS



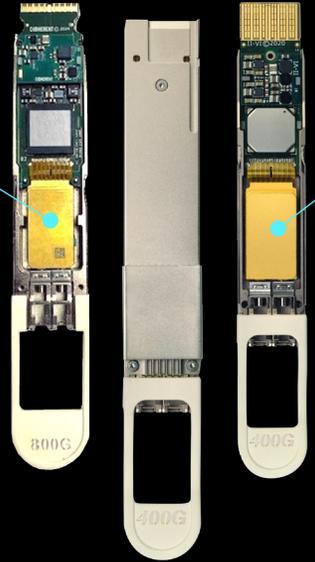
- Power constraints are forcing AI workloads to be spread across multiple datacenters
- Scale across is a high performance, low latency network for AI/datacenter interconnects
- Leverages optical network system disaggregation
- DCI Transceivers and Transport Equipment are critical

DEEP VERTICAL TECHNOLOGY STACK FOR DCI TRANSCEIVERS



nanoITLA

- Tunable laser
- Semiconductor optical amplifier



DCI Transceiver



IC-TROSA C++

- Tunable laser
- IQ modulator
- Dual high speed photo detector



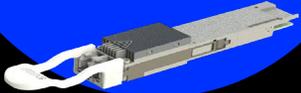
\$6B

**DCI Transceiver
SAM by 2030**

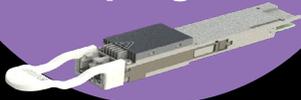
Capability	Type	DCI Transceiver
Assembly and Test	Components and Modules	✓
Sources	Tunable Laser	✓
	Integrated Tunable Laser	✓
Modulators/PICs	IQ Modulator	✓
	Silicon Photonics PIC	✓
Detectors	InP PIC	✓
	Dual High Speed Photo Detector	✓
Passive Optics	Isolators	✓
	Lens Arrays	✓
	Optical Multiplexer/Demultiplexer	✓
Thermal Control	Thermoelectric Coolers	✓
Integrated Circuits	Laser Drivers	✓
	TIA	✓
	DSP	

INDUSTRY-LEADING DCI ROADMAP

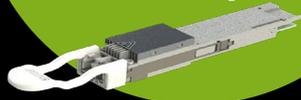
**100G
400G**
In Production



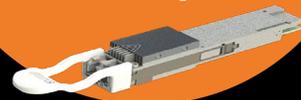
800G
Ramping Now



1.6T
In Development



3.2T
In Development



Industry's First 100G
ZR QSFP-28

Industry's First 800G
ZR/ZR+ Q-DD

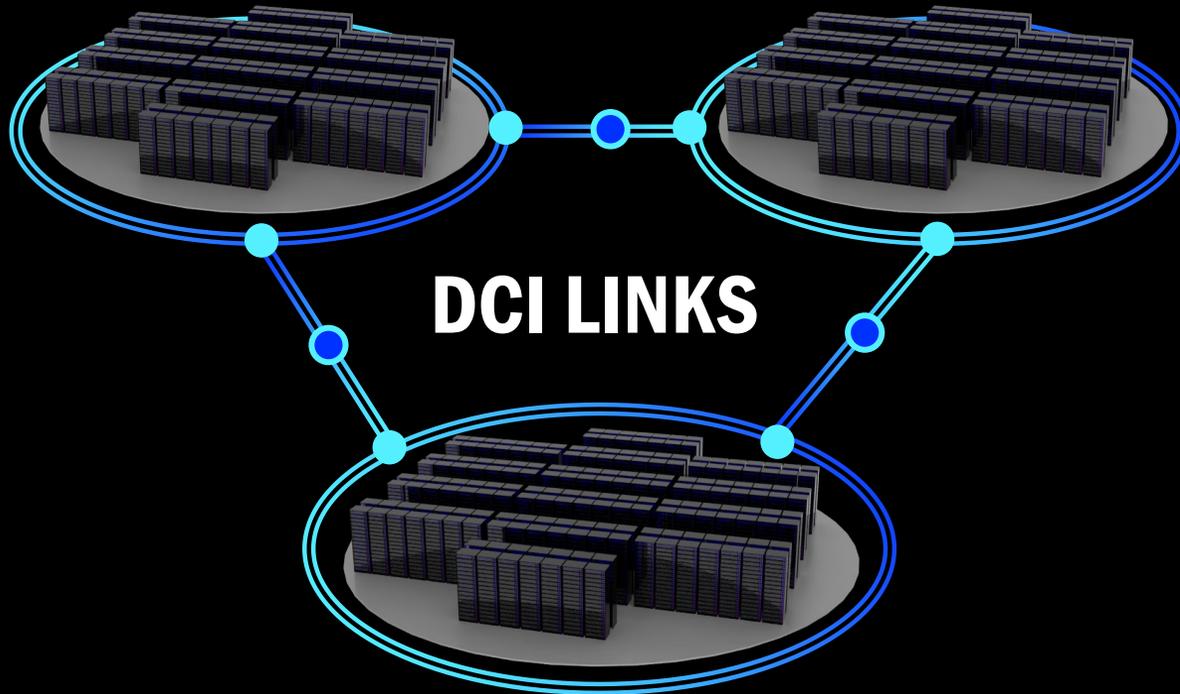
LR/ZR/ZR+/CL
AI Scale Across/Out

FR/LR/ZR/ZR+/CL
AI Scale Across/Out

Industry's First 100G
ZR BiDi & Low Latency

Industry's First
L-band 800G ZR/ZR+

TRANSPORT EQUIPMENT ARE CRITICAL FOR SCALE ACROSS NETWORKS



- DCI Transceivers
- OLS Optical Line Systems

- Transport products carry, route, and monitor the optical signal from source to destination
- Key functions include:
 - Multiplexing/Demultiplexing
 - Amplification
 - Switching and routing
 - Monitoring
- Deep vertical tech stack & broad solution set

\$6B

Transport Market by 2030

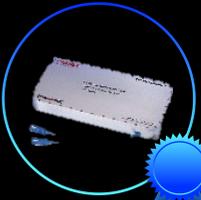
Note: OMDIA and internal estimates

Improving Efficiency is the Biggest Challenge for Emerging Scale Across Networks

MULTI-RAIL – OUR LATEST IN A LONG HISTORY OF TRANSPORT INNOVATIONS



Merchant EDFA



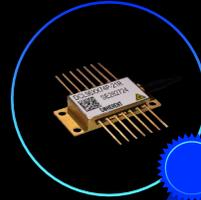
Wavelength Blocker DGE



OCM



Disaggregated Subsystems



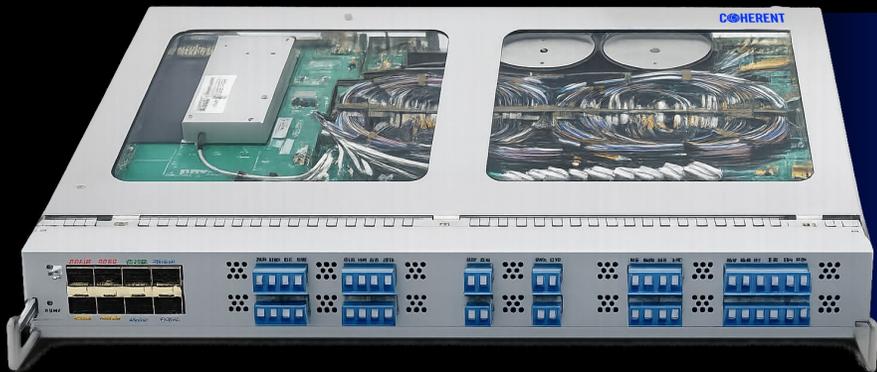
Dual Chip Pump



Uncooled μ Pump Nano EDFA Embedded OTDR



Pluggable Optical Line Systems



MULTI-RAIL SYSTEMS PLATFORM

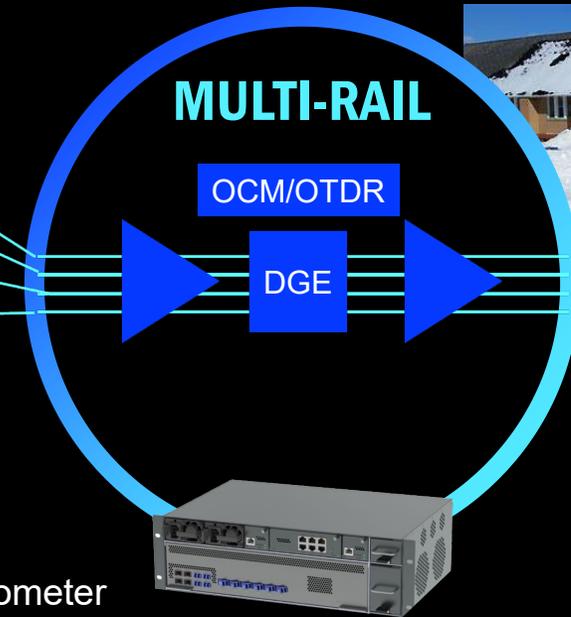
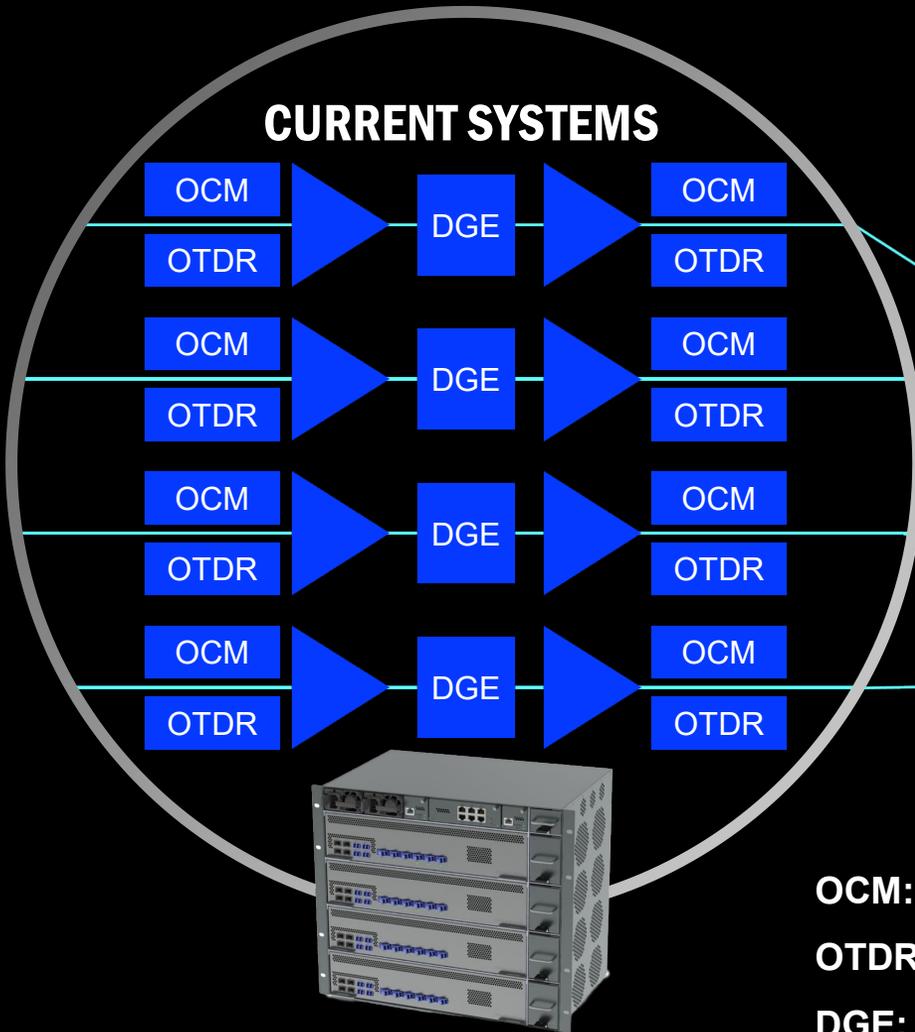


“Most advanced Multi-Rail solution in live demo”, ECOC 2025

WHAT ARE MULTI-RAIL SYSTEMS ?

Multi-rail delivers unprecedented efficiency improvement

- More capacity within the same power and same real estate envelope
- Sub-linear scaling of power
- Sub-linear scaling of volume
- Network simplicity

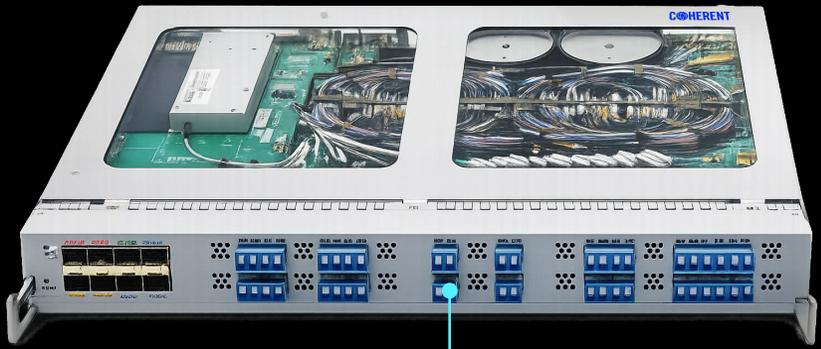


OCM: Optical Channel Monitor
OTDR: Optical Time-Domain Reflectometer
DGE: Dynamic Gain Equalizer

MULTI-RAIL SYSTEMS DEMO AT OFC '26



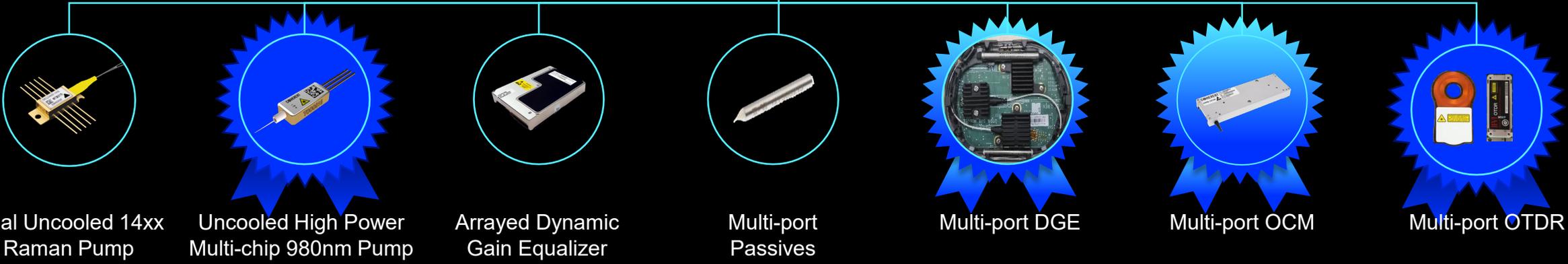
Component & Platform Awards



\$2B+
SAM by 2030

Our unique enabling technologies make Multi-rail a reality

- Arrayed Amplification
- Multi-port Dynamic Gain Equalizer (DGE)
- Signal and Fiber Metrology
 - Multi-port OCM
 - Multi-port OTDR
- Management Resources





NEXT PHASE OF ACCELERATED GROWTH

**Expansion of Photonics
Across the Datacenter**

**Broadest and Deepest
Photonics Portfolio**

**Photonic Manufacturing
Expertise and Scale**

TECHNOLOGY INNOVATION BRIEFING 2026

Q&A

