



Booth 4909 at OFC 2025



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website!

UNIVERSAL FREQUENCY-COMB PLATFORM

for datacenter communications



Funded by the
European Union
EIC TRANSITION
2023

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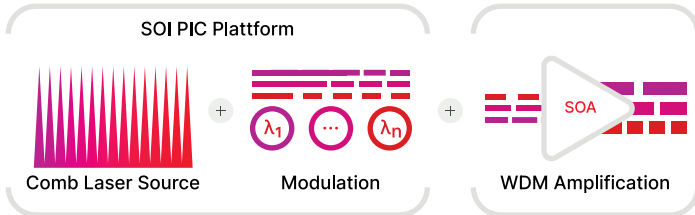
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 **enlightra**

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 **DCU**
Ollscoil Chathair
Bhaile Átha Cliath
Dublin City University

DATA-TRANSCIEVER DEMONSTRATOR



COMB LASER

- ▶ Up to 64 lines per laser
- ▶ O-band wavelength
- ▶ RIN < -135 dB/Hz
- ▶ Ideal for high data rates

COMB SOA

- ▶ WDM amplification after modulation
- ▶ Compensation for SOI Losses
- ▶ High Efficiency
- ▶ Low Bit Error Rate (BER)

OUR RECENT PUBLICATIONS



Bit Error Rate in WDM Data Transmission Links
with Semiconductor Optical Amplifier

Journal of Lightwave Technology, 2024



2 × 53 Gbit/s PAM-4 Transmission
Using 1.3 μm DML with High Power Budget
Enabled by Quantum-Dot SOA

IEEE Photonics Technology Letters, 2024

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