

# CUBIQ Technologies Unveils Quantum Key Distribution demonstrated in a QSFP-28 Pluggable with Coherent and Liberty Global

*CUBIQ Technologies, in collaboration with Coherent Corp. and Liberty Global, has achieved a quantum-safe networking milestone.*

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Coherent is excited to join Liberty Global, and CUBIQ in advancing quantum-safe networking, this highlights how our optical technologies can enable secure communications for the post-quantum future”

*Julie Eng, CTO of Coherent Corp.*

CUBIQ Technologies, a Dutch pioneer in quantum communication, today announced a successful proof-of-concept (POC) showcasing a disruptive quantum key distribution (QKD), the first scalable QKD over DWDM solution in partnership with Coherent Corp. and Liberty Global. The demonstration marks a major milestone in the evolution of scalable, energy-efficient quantum-secure communications.

The POC, set to be showcased at ECOC 2025 (September 29 - October 1), features CUBIQ’s Continuous Variable Quantum Key Distribution (CV-QKD) transceiver in a QSFP-28 pluggable form factor - an industry-first innovation that

integrates seamlessly into existing fiber infrastructure. This compact module enables quantum-safe encryption directly within the PTX Series routing platform, leveraging Coherent’s high-performance 400G ZR QSFP-DD DCO pluggable optical transceivers.

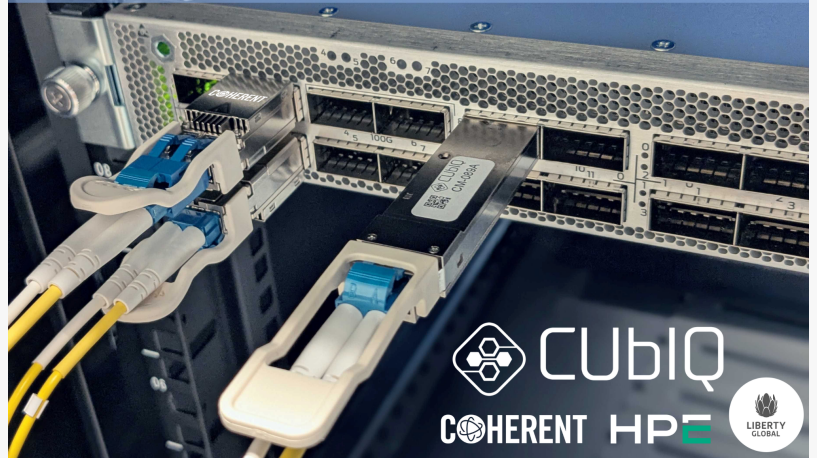
“CUBIQ’s mission is to make quantum security practical, scalable, and accessible,” said Aaron Albores Mejia, CEO of CUBIQ Technologies. “This collaboration proves that quantum-safe networking enabled by QKD can be achieved in an industry standard QSFP-28 form factor pluggable without overhauling existing infrastructure - ushering in a new era of secure communications.”

Coherent, an industry leader in high-speed optical transceiver technology, is partnering with CUBIQ to pioneer the next generation of secure, high-capacity optical pluggable transceivers, leveraging their proven expertise in advanced optical design and volume manufacturing,

“Coherent is excited to join Liberty Global, and CUBIQ in advancing quantum-safe networking,” said Julie Eng, CTO at Coherent Corp. “This proof-of-concept highlights how our optical technologies can enable secure, high-performance communications in the post-quantum future.”

Liberty Global, a global leader in converged broadband and mobile services, selected CUBIQ’s pluggable QKD solution to future-proof its network against quantum-enabled threats. The company views quantum technology as a strategic priority and sees this innovation as a potential game-changer for secure data transmission across its extensive European footprint.

### Industry's First Pluggable for Scalable Quantum Safe Networking with Today's Infrastructure



CUBIQ delivers a quantum-safe networking milestone: CV-QKD in QSFP-28 form factor, demonstrated with Coherent and Liberty Global.

“Liberty Global is thrilled about QKD pluggable technology, as it allows us to enhance our security portfolio with best-in-class, scalable, and cost-effective network encryption transport services.” said Kamiel Braet, Network Architect of Liberty Global”.

The joint solution enables Liberty Global and other customers to reinforce their IPsec and MACsec infrastructure with quantum-safe encryption—protecting networks, services, and end-user data from emerging quantum threats.

Read more at this Blog: <https://blogs.juniper.net/en-us/industry-solutions-and-trends/quantum-safe-networking-plugged-in-a-joint-leap-toward-the-future-of-secure-communications>

#### About CUBIQ Technologies

CUBIQ Technologies, headquartered in Eindhoven, is a Dutch startup delivering next-generation QKD transceiver modules that dramatically reduce power consumption, cost, and footprint by a factor of 100x compared to conventional rack-based systems. CUBIQ’s pluggable solutions enable operators to secure IPsec and MACsec infrastructure with quantum-safe technologies at scale.

Learn more at <http://www.cubiq-technologies.com>.

#### About Coherent Corporation

Coherent Corporation (NYSE: COHR) is the global photonics leader. They harness photons to drive innovation. Industry leaders in the datacenter, communications, and industrial markets

rely on Coherent's world-leading technology to fuel their own innovation and grow.  
Learn more at <https://www.coherent.com/>

#### About Liberty Global

Liberty Global (NASDAQ: LBTYA, LBTYB, LBTYK) is a world leader in converged broadband, video, and mobile communications services with over 85 million connections across Europe and the United Kingdom. Through its family of consumer brands including Virgin Media-O2, VodafoneZiggo, Telenet, and Sunrise, Liberty Global is building tomorrow's connections today.  
Learn more at <https://www.libertyglobal.com/>

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