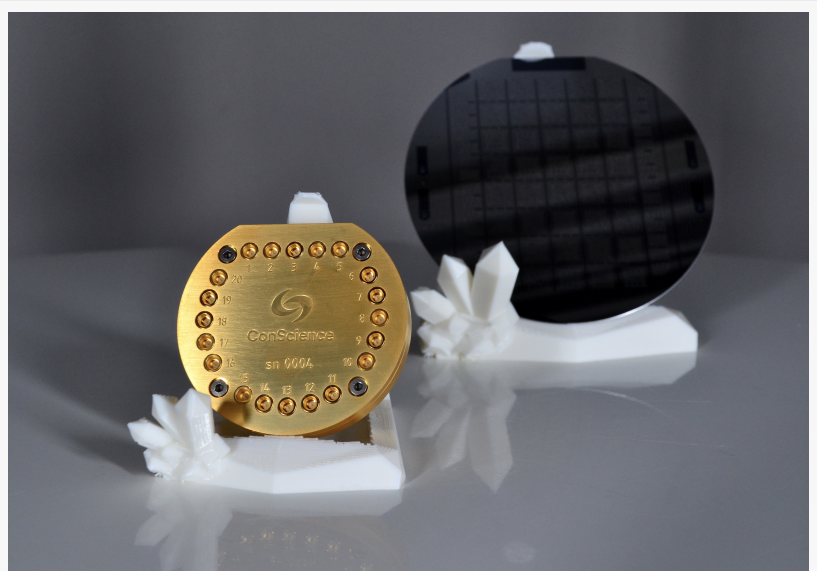


# Roll-Out of the QiB2 — A Superconducting Playground for Quantum Research

*ConScience today announce the roll-out of the QiB2, a versatile superconducting qubit platform designed to accelerate quantum hardware research and education.*

GOTHENBURG, SWEDEN, November 12, 2025 /EINPresswire.com/ -- The [QiB2](#) in the Box20 package provides a comprehensive environment for exploring [qubit](#) coupling architectures of varying complexity — from fundamental resonator studies to multi-qubit interaction schemes — all within a single, integrated device. Researchers can progress step by step through the key building blocks of superconducting quantum systems, including:



Superconducting Qubit Device in the Box20 Packaging

- Bare coplanar-waveguide resonators

“

The QiB2 in the Box20 packaging is a superconducting device, designed for exploring qubit coupling with various levels of complexity - from the simplest to multi-qubit coupling schemes.”

*Janka Biznárová, PhD, Senior Quantum Engineer*

- A single fixed-frequency transmon qubit driven through its readout resonator
- A single fixed-frequency transmon qubit with a dedicated drive line
- A tunable transmon qubit equipped with both flux and drive lines

When ready to move beyond single-qubit physics, the QiB2 offers two coupled-qubit configurations:

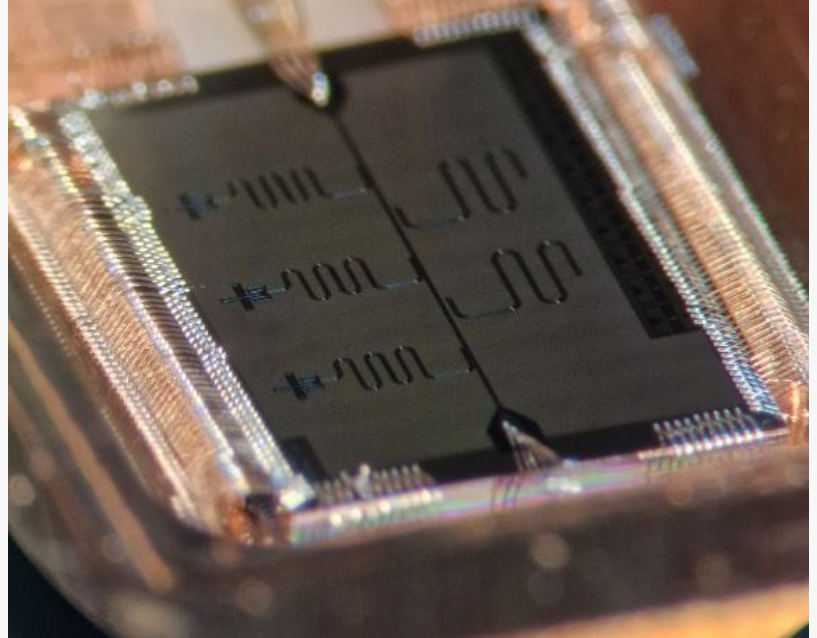
- A pair of tunable qubits connected via a fixed coupler
- A pair of fixed-frequency qubits linked by a tunable coupler

These setups enable direct experimentation with different families of two-qubit gates, such as on-resonance and parametric gates, allowing side-by-side comparison of performance, control fidelity, and noise sensitivity — all within the same platform.

Because each configuration responds differently to environmental noise and setup imperfections, the QiB2 also serves as a powerful benchmarking tool for cryogenic microwave wiring, shielding, and filtering, as well as for the development and validation of control software and hardware. Whether you're establishing a new quantum lab, training students and researchers, or testing cryogenic setups, the QiB2 offers a robust and flexible foundation for experimentation and learning.



ConScience AB Logo



Superconducting Quantum Device with wiring

Housed in the new [Conscience](#) Box20 packaging, the QiB2 integrates seamlessly into cryogenic systems and is ready for immediate deployment.

Learn more at [www.con-science.se/webshop](http://www.con-science.se/webshop)

#quantum #superconducting #hardware #qubits #cryogenics #research

ConScience AB support researchers in industries and academia with expertise in micro- and nanofabrication. For more than 10 years we have supported our clients in the areas of microfluidics, nanofluidics, sensing, and quantum technology.

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