

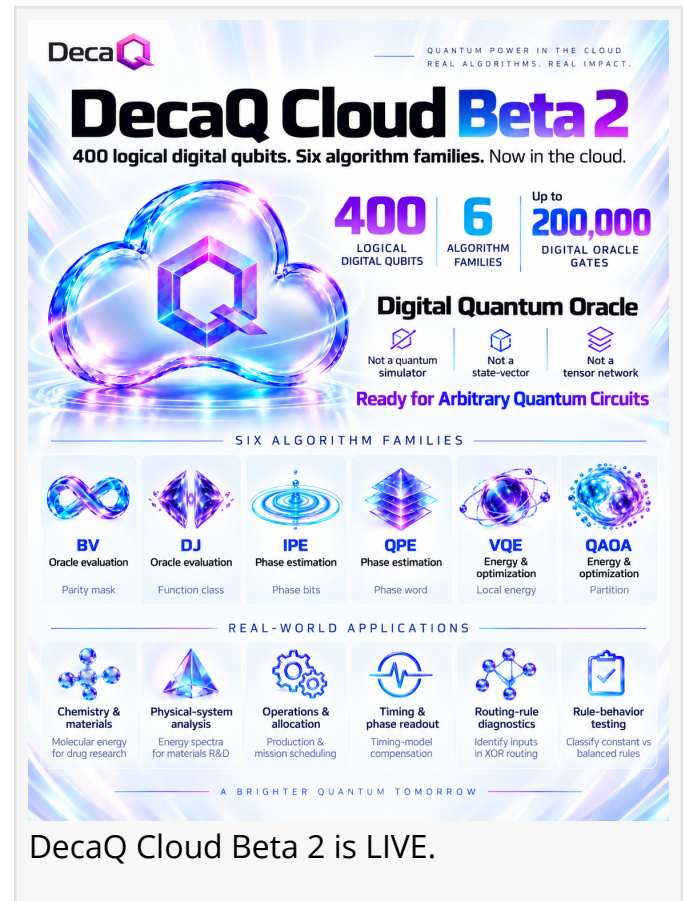
DecaQ Launches Cloud Beta 2 with 400 Logical Digital Qubits and Six Quantum Algorithm Families

DecaQ Launches Cloud Beta 2 with 400 Logical Digital Qubits, Six Quantum Algorithm Families and up to 200,000 digital oracle gates. QPU-free, NO quantum noise.

PETACH TIKVA, ISRAEL, September 29, 2026
/EINPresswire.com/ -- DecaQ Launches Cloud Beta 2 with 400 Logical Digital Qubits and Six Quantum Algorithm Families

Powered by a Digital Quantum Oracle, the platform supports up to 200,000 digital oracle gates on general-purpose hardware - without physical qubits, a QPU, or quantum hardware noise.

ISRAEL, September 29, 2026 — DecaQ today announced the availability of DecaQ Cloud Beta 2, bringing 400 logical digital qubits, six quantum algorithm families, and up to 200,000 digital oracle gates to its cloud platform.



DecaQ QUANTUM POWER IN THE CLOUD. REAL ALGORITHMS. REAL IMPACT.

DecaQ Cloud Beta 2

400 logical digital qubits. Six algorithm families. Now in the cloud.

400
LOGICAL DIGITAL QUBITS

6
ALGORITHM FAMILIES

Up to **200,000**
DIGITAL ORACLE GATES

Digital Quantum Oracle

Not a quantum simulator | Not a state-vector | Not a tensor network

Ready for Arbitrary Quantum Circuits

SIX ALGORITHM FAMILIES

BV	DJ	IPE	QPE	VQE	QAQA
Oracle evaluation	Oracle evaluation	Phase estimation	Phase estimation	Energy & optimization	Energy & optimization
Parity mask	Function class	Phase bits	Phase word	Local energy	Partition

REAL-WORLD APPLICATIONS

Chemistry & materials	Physical-system analysis	Operations & allocation	Timing & phase readout	Routing-rule diagnostics	Rule-behavior testing
Molecular energy for drug research	Energy spectra for materials R&D	Production & mission scheduling	Timing-model compensation	Identify inputs in XQR routing	Classify constant vs balanced rules

DecaQ Cloud Beta 2 is LIVE.

A BRIGHTER QUANTUM TOMORROW

DecaQ is deterministic digital quantum computation powered by a Digital Quantum Oracle. Supported workloads run on general-purpose hardware without physical qubits, a quantum processing unit (QPU), or quantum hardware noise. The platform is not a quantum simulator, a state-vector simulator, or a tensor-network simulator.

Cloud Beta 2 brings together oracle evaluation, phase estimation, and energy and optimization capabilities in a single cloud platform for researchers, developers, and enterprise R&D teams.

Six Families, Three Areas of Capability

Oracle evaluation:

Bernstein–Vazirani (BV) and Deutsch–Jozsa (DJ) support parity-mask identification and function classification, providing capabilities for examining oracle logic, parity relationships, and constant-versus-balanced function behavior.

Phase estimation:

Iterative Phase Estimation (IPE) and Quantum Phase Estimation (QPE) provide sequential phase-bit and phase-word readout, supporting the investigation of phase information and eigenvalue-related properties in supported models.

Energy and optimization:

The Variational Quantum Eigensolver (VQE) and Quantum Approximate Optimization Algorithm (QAOA) support local-energy and graph-partitioning reference workloads, providing a basis for exploring energy-estimation and optimization applications.

Research and Application Development

These six families provide research pathways toward chemistry and materials, physical-system analysis, timing and phase readout, operations and network allocation, and rule diagnostics.

The release's reference examples include local-field energy, encoded delay readout, and wireless-channel partitioning. These examples give users concrete starting points for evaluating the platform's supported capabilities and exploring their relevance to research and application development.

Cloud Availability

DecaQ Cloud Beta 2 is now live. Researchers, developers, and enterprise R&D teams can contact DecaQ through DecaQ.ai to discuss beta access and supported workloads.



DecaQ
QUANTUM POWER IN THE CLOUD
REAL ALGORITHMS. REAL IMPACT.

Business applications

Six algorithm families in DecaQ Cloud Beta 2

FROM ALGORITHMS TO REAL-WORLD IMPACT

VQE	QPE	QAOA
Chemistry & materials	Physical-system analysis	Operations & allocation
- Molecular energy for drug research - Catalysts, batteries & new materials - Built example: local-field energy	- Energy spectra for materials R&D - Eigenvalues of physical models - Built example: encoded delay readout	- Production & mission scheduling - Logistics, networks & portfolios - Built example: wireless channel split

PROVEN ALGORITHMS. REAL BUSINESS VALUE.

IPE	BV	DJ
Timing & phase readout	Routing-rule diagnostics	Rule-behavior testing
- Timing-model compensation - Sequential phase readout	- Identify inputs in XOR routing rules - Review industrial control logic	- Classify constant vs balanced rules - Check configuration-sensitive routing

DECAQ CLOUD BETA 2
A BRIGHTER QUANTUM TOMORROW

DecaQ - Six algorithm families.



DecaQ
QUANTUM POWER IN THE CLOUD
REAL ALGORITHMS. REAL IMPACT.

Digital Quantum Oracle

Why Cloud Beta 2 is different

400 LOGICAL DIGITAL QUBITS	6 ALGORITHM FAMILIES	Up to 200,000 DIGITAL ORACLE GATES
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Ready for Arbitrary Quantum Circuits

KEY DIFFERENTIATORS

 No physical qubits	 No QPU	 No quantum noise
 Not a quantum simulator	 Not a state-vector	 Not a tensor network

A BRIGHTER QUANTUM TOMORROW

DecaQ - Digital Quantum Oracle.

About DecaQ

DecaQ develops deterministic digital quantum computation powered by a Digital Quantum Oracle. Its technology executes supported quantum workloads on general-purpose hardware without physical qubits, a QPU, or quantum hardware noise. DecaQ Cloud provides access to this architecture for research, development, and evaluation.

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