

Classiq and AQT Partner to Deliver Seamless Ion-Trap Integration to Tackle Real-World Challenges

Press Release
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Tel Aviv, Israel, and Innsbruck, Austria, December 5th, 2024 - [Classiq Technologies](#), a leader in quantum computing software, and [Alpine Quantum Technologies](#) (AQT), a global pioneer in ion-trap quantum computing, today announced a strategic partnership to deliver seamless integration between Classiq's enterprise-grade quantum algorithm design platform and AQT's state-of-the-art ion-trap quantum computers.



Classiq enters a strategic partnership with AQT
Foto credit: D. Kühl, AQT

By combining the [Classiq platform's](#) ability to develop sophisticated, scalable quantum circuit implementations with [AQT's award-winning ion-trap hardware](#), the partnership offers customers expanded options for their quantum computing activities. It enables both enterprises and researchers to tackle complex computational challenges with greater efficiency.

Through this partnership, users gain access to a unified workflow that bridges Classiq's innovative, hardware-aware software tools with AQT's advanced quantum hardware. Classiq's platform automates the design, optimization and implementation of quantum algorithms, enabling users to develop, debug and execute sophisticated quantum applications. The integration with AQT's precision ion-trap systems ensures high-performance operation, catering to the needs of enterprise teams and academic researchers alike.

A Shared Vision for Quantum Innovation

"We're dedicated to offering our users the broadest set of quantum computing hardware options," said **Nir Minerbi, co-founder and CEO of Classiq**. "The integration of our quantum algorithm design platform with AQT's advanced ion-trap systems provides a compelling opportunity for enterprises and researchers to implement and run their quantum circuits with ease, scalability and reliability."

"This partnership brings together the best of quantum software and ion-trap hardware, allowing innovation to thrive," said **Dr. Thomas Monz, CEO of AQT**. "By integrating with Classiq, we are making it simpler than ever for enterprises and researchers to harness the potential of ion-trap quantum computing for real-world challenges."

Building a Quantum Future

This collaboration advances quantum readiness by fostering interoperability within the quantum ecosystem. By uniting their expertise in software and hardware, Classiq and AQT are paving the way for further innovation, benchmarking, and the exploration of new quantum implementations.

The partnership also opens doors for future collaboration opportunities, such as integrations with high-performance computing (HPC) environments.

Classiq Technologies, the leading quantum software company, provides an all-encompassing platform (IDE, compiler, and OS) with a single point of entry into quantum computing, taking users from algorithm design to execution. The high-level descriptive quantum software development environment, tailored to all levels of developer proficiency, automates quantum programming. This ensures that a broad range of talents, including those with backgrounds in AI, ML, and linear algebra, can harness quantum computing without requiring deep, specialized knowledge of quantum physics. Classiq democratizes access to quantum computing and equips its users to take full advantage of the quantum computing revolution, including access to the broadest range of quantum hardware.

Classiq's core technology, algorithmic quantum circuit compilation, is engineered to power the quantum ecosystem of today and the future. Classiq works closely with quantum cloud providers and advanced computation hardware developers providing software for use with quantum computers, HPC, and quantum simulators.

Backed by investors such as HPE, HSBC, Samsung, Intesa Sanpaolo and NTT, Classiq's world-class team of scientists and engineers has distilled decades of quantum expertise into its groundbreaking quantum engine technology. Follow [Classiq](#) on [LinkedIn](#), [X](#) or [YouTube](#), and visit the [Slack community](#) to learn more.

Alpine Quantum Technologies (AQT) is a global leader in ion-trap quantum computing, offering high-fidelity systems designed for real-world scalability and applications. Based in Innsbruck, Austria, AQT builds on decades of academic excellence to provide industry-leading solutions for enterprise quantum computing. Follow AQT on [LinkedIn](#) and [X](#). For more information about AQT, please visit: www.aqt.eu

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ABOUT AQT

AQT
ALPINE QUANTUM TECHNOLOGIES GMBH

Building on decades of experience in experimental and theoretical quantum information processing, AQT develops and builds quantum computers. The company's goal is to offer ion trap-based quantum computers that fit seamlessly into conventional IT infrastructure and can be operated from any PC or laptop, regardless of location. AQT already enables its customers to install quantum computers on site or to use them via a convenient cloud solution. AQT supports research customers with quantum hardware components and complete solutions that significantly accelerate the development of quantum optics experiments.

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For more information about AQT, please visit: www.aqt.eu

INFORMATION

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