AQT announces its trapped-ion quantum computer now available on Amazon Braket

Press Release
Innsbruck, November, 18th 2025

AQT (Innsbruck, Austria), a leading provider of quantum computers from Europe, is announcing the availability of its trapped-ion quantum computer on Amazon Web Services (Seattle, Washington). With the integration of AQT's IBEX Q1, industrial companies, research institutions, public authorities, educational institutions and developers worldwide gain direct cloud access to European quantum technology - now fully integrated into Amazon Braket.

Cloud access to AQT's quantum computer IBEX Q1 on Amazon Braket
Photo credit: D. Kühl, AQT

Eric Kessler, General Manager, Amazon Braket

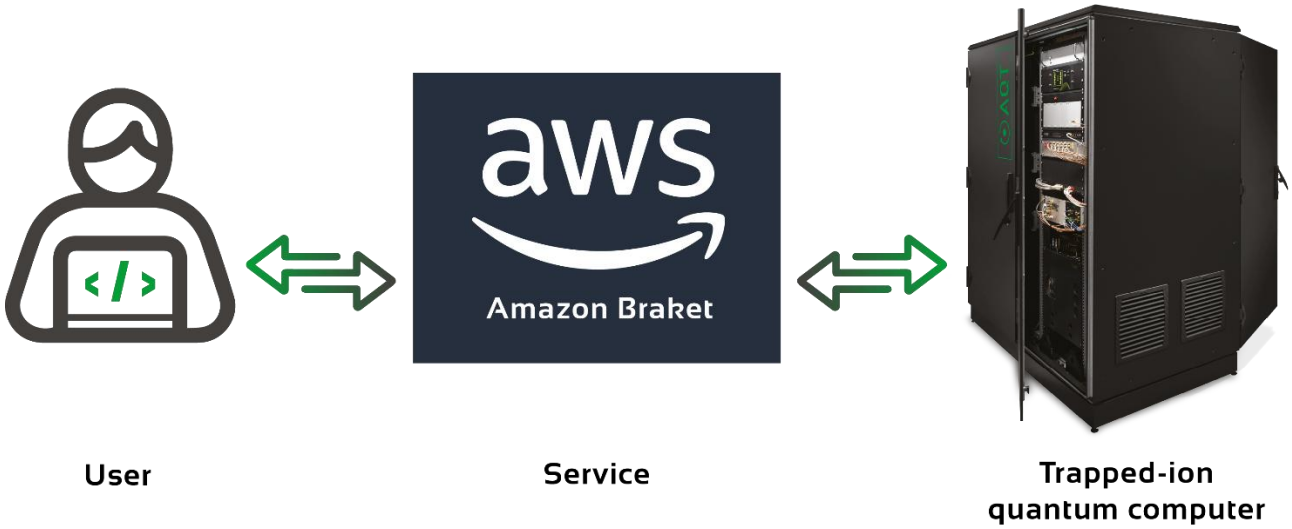
"With the integration of IBEX Q1 into Amazon Braket we continue to expand the choices for AWS customers experimenting with quantum computing. We're excited to deepen our dedication to EU customers and the European quantum computing community by providing access to locally hosted infrastructure, meeting critical sovereignty needs. AQT on Braket opens new opportunities for EU-based customers, providing access to trapped-ion technology to advance their research in quantum computing."

Thomas Monz, CEO of AQT

"With the IBEX Q1 system on Amazon Braket, AQT is happy to provide European and international customers convenient and reliable access to our high-performance trapped-ion quantum computers. Our fully connected quantum processor and low error rates facilitate the realisation of quantum-enhanced markets. The shared commitment of Braket and AQT brings this technology to a global audience and enable novel use-cases and value-generation."

Advantages of accessing AQT's quantum computer via Amazon Braket

- **Cloud access to quantum computers wherever you are**
  Use quantum computing without having to invest in your own infrastructure - direct cloud access to AQT's trapped-ion quantum computer from anywhere.
- **On-demand or reservation access to trapped-ion technology**
  Ideal for industry, research, prototyping, and education for gradual entry into quantum applications.
- **Wide range of applications**
  AQT's universal quantum computers have demonstrated diverse application areas such as chemistry, portfolio optimization, risk analysis, quantum security, cryptography and many more.
- **Data residency in Europe**
  AQT's quantum computer IBEX Q1 is operated in Innsbruck, Austria - important for companies and public institutions with requirements for data protection, regulation and technological sovereignty.

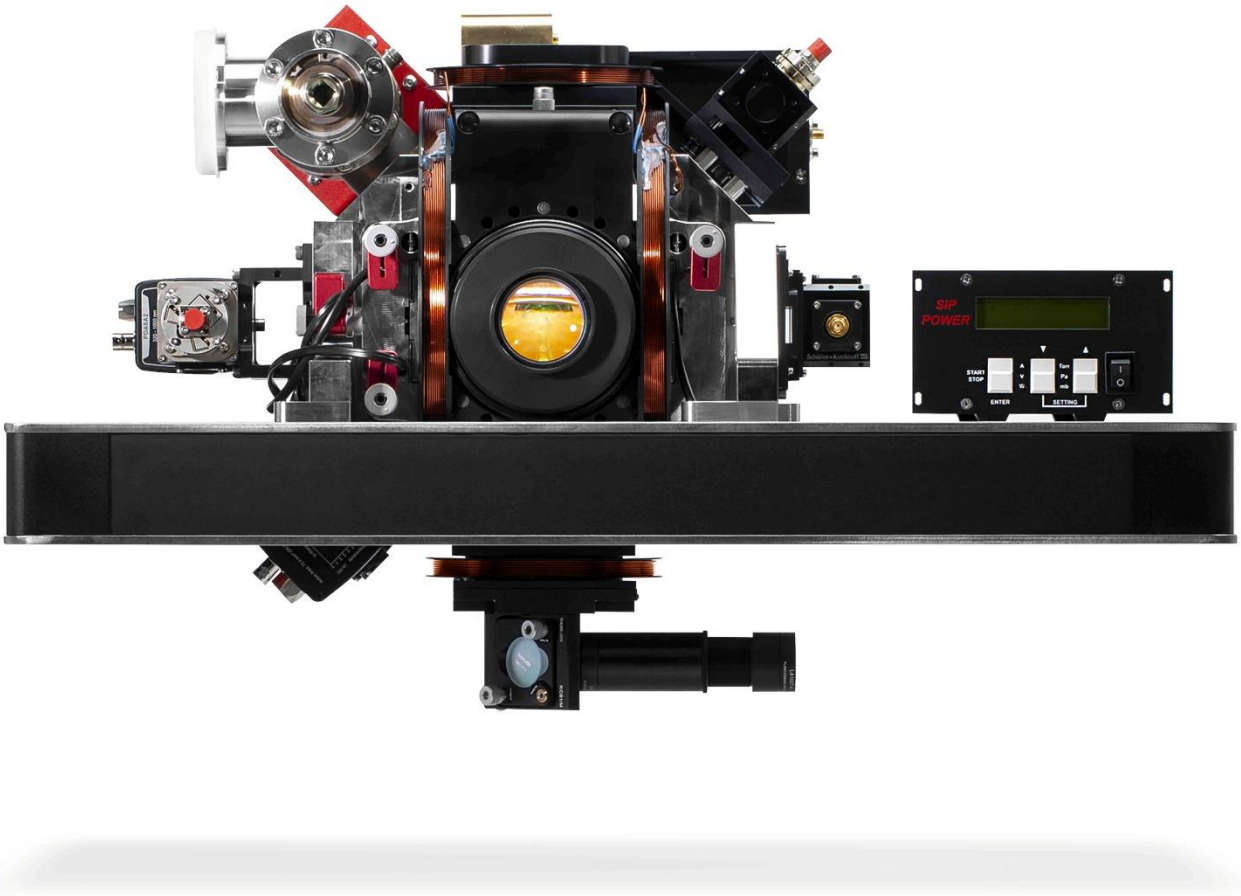


Accessibility for everyone via Amazon Braket to AQT's trapped-ion quantum computer
Photo credit: AQT, Amazon

AQT's quantum computer IBEX Q1

All components of the AQT quantum computer fit into two 19-inch rack cabinets that are compatible with existing HPC infrastructure and datacentre installations. The entire quantum computer runs in a constant room temperature environment and consumes less than 2 kW of power.

Trapped-ion quantum computer by AQT
Photo credit: D. Kühl, AQT



Quantum processor PINE SET-UP by AQT, seamless for the integration in a 19-inch rack or laboratory infrastructure.
Photo credit: D. Kühl, AQT

New Possibilities

For characterization and benchmarking data of IBEX Q1, including metrics such as crosstalk and quantum volume, visit the AQT website or the Amazon Braket Management Console.

AQT's trapped-ion quantum computer IBEX Q1 is the ideal hardware for proof-of-concept use cases in the fields like chemistry, portfolio optimization, risk analysis, quantum security, decryption and more. The quantum computer is located in Austria, which is particularly advantageous for users with data residency, regulatory or European sovereignty requirements.

Process optimisation in manufacturing industry
Photo credit: AQT

Cloud access to AQT IBEX Q1 quantum computer via Amazon Braket
Photo credit: D. Kühl, AQT

With AQT's trapped-ion quantum computer available on Amazon Braket, users can get started immediately - without upfront costs and fully tailored to their specific needs. Whether on-demand or via hourly reservations through Braket Direct, you can access IBEX Q1 according to your needs. This makes it easier than ever to explore quantum algorithms- for research, development and innovation.

Discover the potential of AQT's trapped-ion quantum computer on Amazon Braket - all details and further information are available on the Amazon Braket website.

ABOUT AQT

AQT
ALPINE QUANTUM TECHNOLOGIES GMBH

Building on decades of experience in experimental and theoretical quantum information processing in Innsbruck (Austria), AQT develops and builds quantum computers. The company offers 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 enables its customers to install quantum computers on site or to explore use-cases via a convenient cloud solution. Researchers and developers are supported by both quantum hardware components as well as complete systems that significantly accelerate the development of quantum solutions.

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INFORMATION

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