

Introducing



What is TitanQ?

TitanQ is an advanced solver platform designed to tackle exceptionally large optimization problems with remarkable speed and efficiency. Drawing inspiration from the mathematics of quantum computing, **TitanQ** excels in addressing NP-Hard combinatorial optimization challenges.

How we make the impossible possible.

Harnessing the power of probabilistic computing, **TitanQ** swiftly identifies optimal and near-optimal solutions for complex problems. Its probabilistic algorithm stochastically navigates the extensive space of potential solutions, delivering a set of viable answers to any given problem. Before our technology, solving these large-scale problems required days to years, or they were deemed “impossible”. **TitanQ** enables you to solve these complex problems in mere seconds.

TitanQ can help.

TitanQ enables businesses to make strategic, data-driven decisions that enhance efficiency and reduce costs without sacrificing quality. By optimizing resource allocation, it helps businesses cut costs and improve operational efficiency in areas like scheduling, route optimization, and supply chain management.

TitanQ also maximizes revenue potential through techniques like dynamic pricing and streamlining operations to boost productivity. Additionally, it supports sustainability by reducing waste and energy consumption. Overall, **TitanQ** provides tools for informed decision-making, driving better performance, profitability, and resilience. **TitanQ**’s impact on businesses is tangible and transformative. For instance, by assisting a company’s scheduling system, **TitanQ** condensed what was once a cumbersome multiple week process into mere seconds, effectively freeing up valuable time and resources. This dramatic improvement played a pivotal role in shaving 1.5 months off a critical 15-month project, ensuring the company met deadlines and avoided costly time penalties.



BENEFITS

- ✓ HIGHER ACCURACY
- ✓ LOWER COST
- ✓ LOWER ENERGY USE
- ✓ PORTABLE
- ✓ MORE ROBUST
- ✓ STABLE
- ✓ MORE FLEXIBLE



Life Sciences

Protein & RNA folding
Drug discovery,
Production & Logistics



Energy

Grid optimization,
Distribution,
Pricing & Logistics



Last Mile Delivery

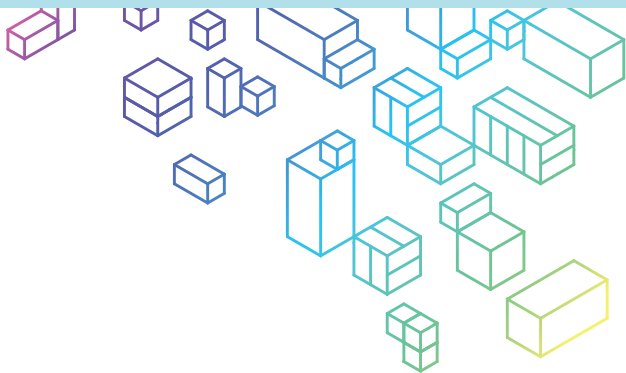
Optimization of Delivery
Routes & Schedules



Transport & Logistics

Optimization of Network
layout and Schedules
including Complex Global
intermodal networks





Get Started - Book Your Demo Today

Accessibility

TitanQ is a cloud-first platform, offering revolutionary optimization capabilities accessible via its web API and SDK. With just an access key, you can start leveraging TitanQ's powerful tools immediately.

We offer special trial programs for startups and small businesses and provide access for Researchers interested in exploring the platform's potential.




Up to 6.3 billion parameters and 144,000 variables

What is the Ising Machine?

An **Ising machine** is a computational device designed to solve optimization problems by using the Ising model, which involves finding the lowest energy configuration of a system of spins. These machines use technologies like optical, electronic, and quantum systems to simulate the Ising model and efficiently explore possible spin configurations. They are particularly effective in fields such as logistics, finance, machine learning, and material science due to their ability to explore multiple states simultaneously.

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