



Quantum Computing Inc.

Reports Q2 about inline. We expect major acquisition of QPhoton and strong growth over the next year to be positive for stock. Raising P/T to \$9.50.

COMPANY UPDATE

Rating: BUY

Ticker: QUBT

Price: \$3.01

Target: \$9.50 (from \$9.00)

Q2 about inline: Quantum recently (on August 15) reported its fiscal Q2 2022 (ending June) results. Revenue was \$0.07 million, compared to our estimate of \$0.10 million. EPS was \$(0.17), compared to our estimate of \$(0.19). There was no consensus estimates or company guidance.

Still very early stage: Quantum's recent financial performance is reflective of its developmental and early commercialization stage and has finally reported initial revenue in Q1 (Q2 was the second quarter of revenues). The company, having recently launched several of its initial products, is currently focusing on sales and marketing of its products. We believe investors should be focused on its commercialization of its software, which we believe within the next year, the company should grow revenue quickly.

Maintaining estimates: We are maintaining our 2022 estimates for revenue of \$1.0 million, and for EPS of \$(0.73). Our estimates includes its recent acquisition of QPhoton.

Acquired QPhoton: In May, the company announced that it will be acquiring QPhoton, Inc. QPhoton is a privately held company that is a leading innovator in the quantum photonic technology space. Merger consideration will be paid in stock (~37 million shares). The deal closed in June 2022.

Investment in QPhoton: In February, the company announced a marketing agreement with QPhoton, to merge QCI's quantum software solution, Qatalyst, with QPhoton's advanced photonic quantum technologies for its application to QCI-specific solutions. As part of this agreement, Quantum will invest \$2.5 million in QPhoton.

Focused on quantum computing: Quantum's flagship software solution, Qatalyst, is a ready-to-run quantum and classical software for optimization computations for faster, better, and more diverse business decisions. By being early in this rapidly growing industry, we believe Quantum is well-positioned to capture and drive a meaningful market share and industry growth.

The need for quantum computing: The rapid and widespread adoption of technologies such as the Internet, artificial intelligence, virtual and augmented reality, 3D imaging, and the Internet of Things (IoT), have served to exponentially increase the generation of data. This has driven up the demand for high-performance computing to process all this data.

Large market potential: As quantum computing hardware continues to advance, we expect a corresponding growth in demand for quantum software to run on these computers. The U.S. Government has committed \$1.3 billion to funding quantum information science programs.

Balance sheet: In Q4, the company raised \$8.5 million selling preferred stock. We believe the company has enough cash into Q4 2022, so it will likely need to raise new capital soon.

Positive high risks versus rewards: Overall, concerns outweighed by growth prospects and valuation. We believe the ~billion dollars market potentials presents high rewards for the risks.

Valuation attractive: We are maintaining our BUY rating, but raising our 12-month price target to \$9.50 from \$9.00, based on a NPV analysis, representing significant upside from the current share price. We believe this valuation appropriately balances out the company's high risks with the company's high growth prospects and large upside opportunities.

Company Description

Based in Leesburg, VA, Quantum Computing is an early-stage software development company focused on classical and quantum software for complex optimization computations.

United States
Technology

August 22, 2022

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Stock Data

| | |
|--------------------------------------|-------------|
| Exchange: | NasdaqCM |
| 52-week Range: | 1.42 – 8.90 |
| Shares Outstanding (million): | 34 |
| Market cap (\$million): | \$102 |
| EV (\$million): | \$95 |
| Debt (\$million): | \$0 |
| Cash (\$million): | \$7 |
| Avg. Daily Trading Vol. (\$million): | \$1 |
| Float (million shares): | 25 |
| Short Interest (million shares): | 0.5 |
| Dividend, annual (yield): | \$0 (NA%) |

Revenues (US\$ million)

| | <u>2022E</u> (Cur.) | <u>2022E</u> (Old) | <u>2023E</u> (Cur.) | <u>2023E</u> (Old) |
|---------|------------------------|-----------------------|------------------------|-----------------------|
| Q1 Mar | 0.0A | | 1.0E | |
| Q2 Jun | 0.1A | 0.1E | 1.0E | |
| Q3 Sep | 0.2E | | 1.0E | |
| Q4 Dec | <u>0.7E</u> | | <u>2.0E</u> | |
| Total | 1.0E | | 5.0E | |
| EV/Revs | 61x | | 10x | |

Earnings per Share (pro forma)

| | <u>2022E</u> (Cur.) | <u>2022E</u> (Old) | <u>2023E</u> (Cur.) | <u>2023E</u> (Old) |
|--------|------------------------|-----------------------|------------------------|-----------------------|
| Q1 Mar | (0.24)A | | (0.16)E | |
| Q2 Jun | (0.17)A | (0.19)E | (0.16)E | |
| Q3 Sep | (0.16)E | (0.15)E | (0.16)E | |
| Q4 Dec | <u>(0.15)E</u> | <u>(0.14)E</u> | <u>(0.14)E</u> | |
| Total | (0.73)E | | (0.63)E | |
| P/E | N/A | | N/A | |

Important Disclosures


Ascendant Capital Markets LLC seeks to do business with companies covered by its research team. Consequently, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making an investment decision.

For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report, beginning on page 14.

Exhibit 1: Quantum Computing Inc. Overview

QCI Accelerates the Path to Quantum Value Today **QCI** Ready-to-run Quantum Software
NASDAQ: QUBT

Qatalyst
Ready-to-Run
Quantum Software



Quantum optimization software

- Ready-to-run on diverse QPUs, classical and hybrid

Business experts can use it

- No quantum expertise needed


No vendor lock-in

- Explore multiple QPUs simultaneously
- Use the best QPU for the problem

Eliminates Cost, Risk and Time of Complex Quantum Software Development


QCI Accelerates & Expands the Path to Quantum Value **QCI** Ready-to-run Quantum Software
NASDAQ: QUBT

Ready-to-Run
Quantum Software




Qatalyst

Ready-to-Run
Quantum Computer



QPhoton

➔



**Full Stack, Ready-to-Run
Quantum Systems,
Anywhere for Anyone**

Affordable and Accessible Quantum Computing Value for More Users

Key Takeaways **QCI**
QUANTUM COMPUTING INC.
NASDAQ: QUBT

Breakthrough Technology

Quantum-enabled software that delivers business value *today*. Qatalyst can solve some of the most important and complex computing problems at record speed.



Large Addressable Market

High-Growth Opportunity: 56% CAGR to \$65 billion by 2030. Diverse applications across multiple industries: finance, national defense, industry, healthcare and more.

World Class Team

We have assembled a team of subject matter experts with decades of success in quantum computing, supercomputing, pharma, fintech, manufacturing and security.

Performance Revenue Model

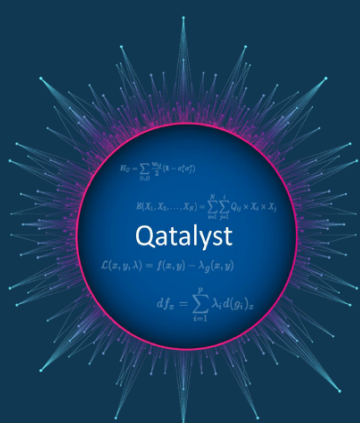
Opportunities for strategic partnerships with major enterprise, government agencies, and national labs to produce real-world performance advantages.

Source: Company reports.

Exhibit 2: Quantum Computing Investment Highlights


Who We Are

- **Only public pure-play quantum software company** in the high-growth, multi-billion-dollar quantum computing space.
- **Innovative delivery** of quantum-powered optimization solutions for the enterprise.
- **We apply quantum techniques** to classical computing today to better solve high-value enterprise computational problems, with a seamless bridge to quantum computing.
- **We deliver solutions with unmatched speed and quality of results** using quantum techniques – *and not someday, but today.*
- **Highly experienced and accomplished management team:** industry pioneers from Cray, Silicon Graphics, D-Wave, and other major IT firms.
- **Our flagship quantum software accelerator, Qatalyst™**, recently launched as a software-as-a-service (SaaS) on Amazon Web Services (AWS) and Amazon Braket.



Qatalyst

Our flagship software solution, Qatalyst, is the industry's only quantum application accelerator, empowering today's Subject Matter Experts (SMEs) to immediately leverage the power of quantum techniques for faster, better, and more diverse business decisions - with no need for quantum expertise or training.



Source: Company reports.

Exhibit 3: Quantum Computer Reality Check

The Quantum Reality Check

The Good

- Huge investments by major players are driving quantum momentum.
- Quantum has the potential to deliver faster, better solutions for many critical, real-world enterprise problems.
- QPUs are constantly improving and expanding
- Every day we're learning more about quantum programming, the challenges, and what we really need to think about.



The Bad, i.e., What Needs Work

Hardware

- Quantum processors are still in their infancy.
- Cannot scale to process the large volumes of data and variables created by today real-world problems
- No standard quantum computer architecture.
- Proprietary, unique low-level code required for each vendor

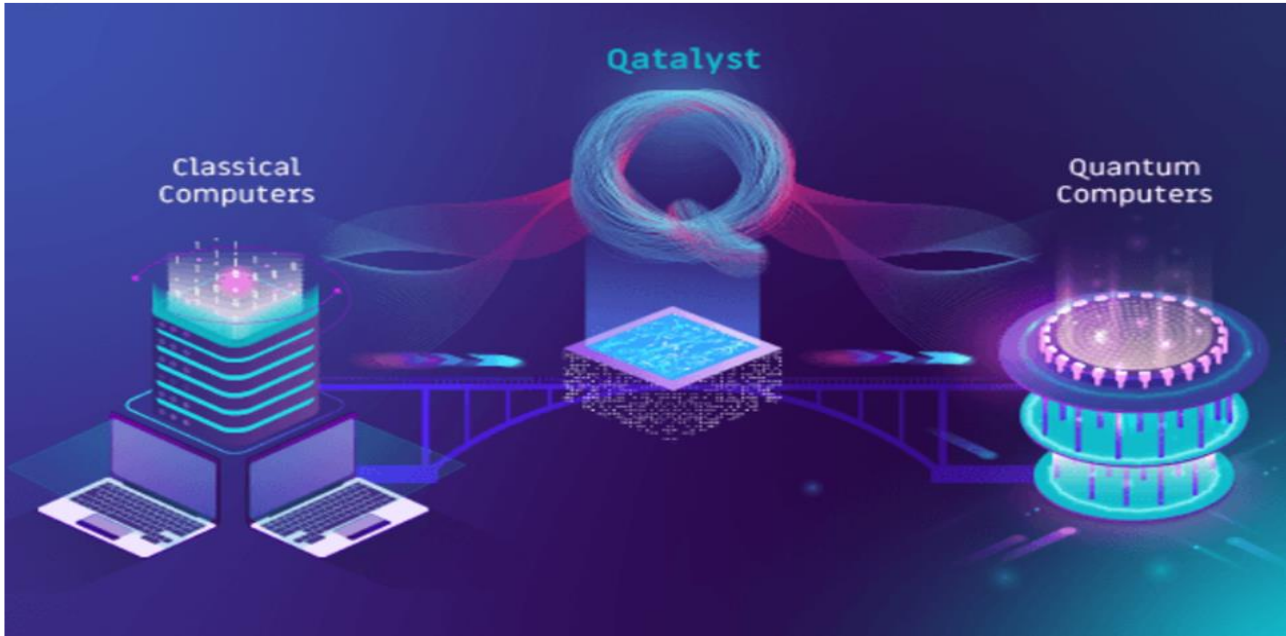
Software

- Requires complex programming with SDK (software development kits)
- SDKs require quantum expertise to understand and use
- Long lead time and costs required to train and develop the skills needed to create quantum programs



Source: Company reports.

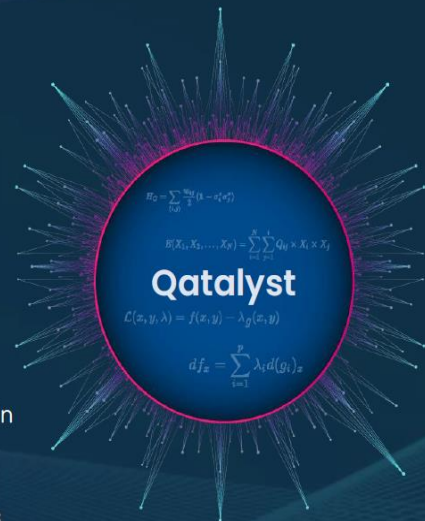
Exhibit 4: Quantum Computing's Qatalyst Software Solutions



What is Qatalyst?



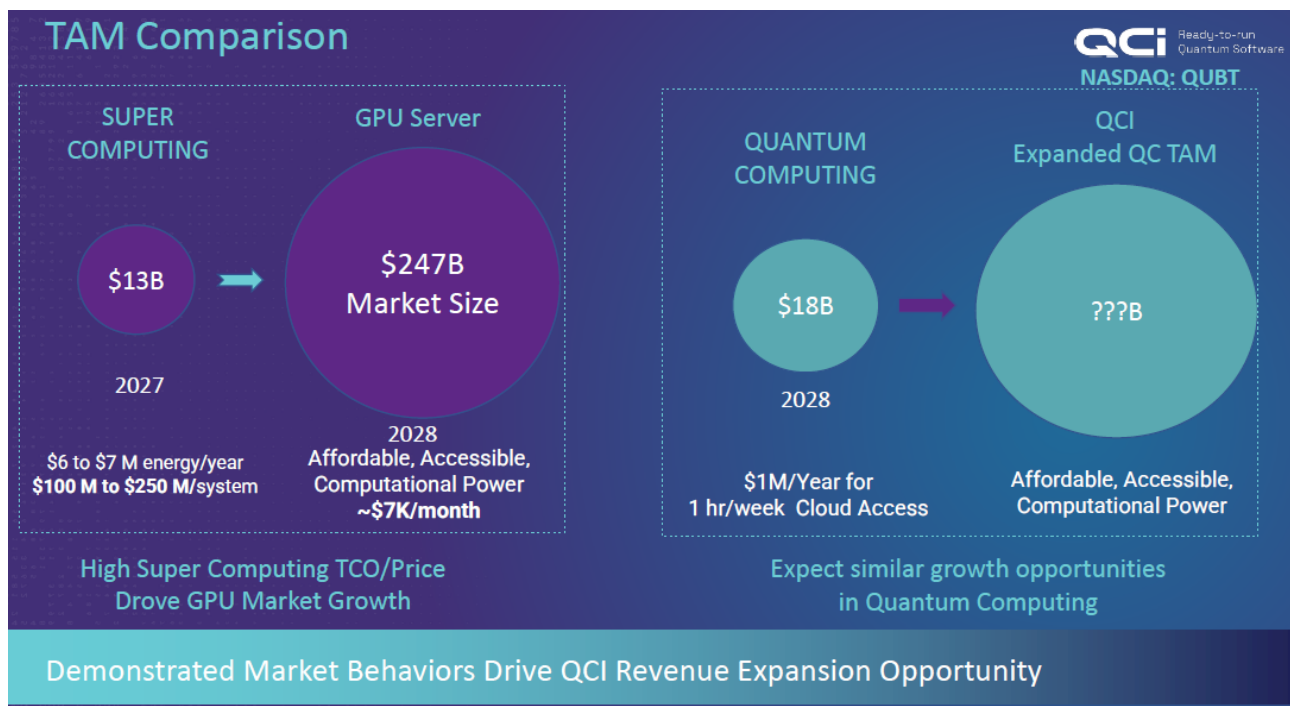
- Quantum-ready constrained optimization software for classic & quantum computers
 - Quantum-ready techniques applied to classic computing enhances the quality and performance of classical computations
 - Returns a diversity of excellent results faster for better decisions
- SME driven, no quantum expertise required
 - SMEs, workflows and applications submit familiar programs
 - Qatalyst does the rest via six simple API calls
 - SMEs empowered right now vs being left behind
- No hardware lock-in; Use the best QPU for the problem
 - Immediately access the power of quantum across diverse QPU vendors, in the cloud.
 - No need for low-level coding, no on-premise requirements.
 - Submit the same program on CPUs or QPUs using the same Qatalyst APIs
 - Qatalyst controls and adjusts to the hardware; no need for low level programming or reprogramming when changing QPUs



Ready-for-Results Quantum Software

Source: Company reports.

Exhibit 5: Quantum's Market Opportunity



Source: Company reports.

Exhibit 6: Catalyst Market Opportunities



QCI
QUANTUM COMPUTING INC.
NASDAQ:QUBT

Qatalyst Near-term Addressable Markets – Examples

| Application | Markets | Addressable Market Size |
|---|---|------------------------------------|
| Supply Chain & Logistics Optimization | <ul style="list-style-type: none"> • Retail • Aerospace • Chemical/Materials • Utilities • Manufacturing | \$22 Billion+ ¹ |
| Transportation Optimization | <ul style="list-style-type: none"> • Airlines • Delivery | \$5 Billion+ ² |
| Community Detection | <ul style="list-style-type: none"> • Cyber Security • Biotech • Government | \$156 Billion+ ³ |
| Total | | \$157 Billion+ |
| Other potential revenue sources: <ul style="list-style-type: none"> • Government or Commercial R&D contracts • Consulting | | Typical Gross Margins of 60% - 70% |

Source: Company reports.

Exhibit 7: Qatalyst Applications Examples

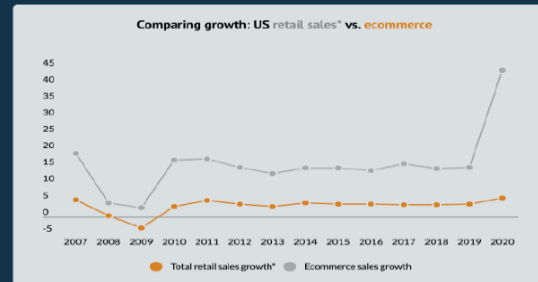
Example QC Application Retail Supply Chain Optimization



Ecommerce shift complicates everything.

Covid accelerated that shift.

- **Shopping baskets.** From single basket with lots of items to many baskets with few items.
- **Supply Chain availability.** Shifting demand and Covid lockdowns/delays mean raw materials and product availability is a dynamic and ever-changing target.
- **Consumer expectations.** Customers expect unlimited product selection and availability at the lowest price. The emerging differentiator is becoming delivery time.
 - As many as 96% of customers consider faster delivery synonymous with same-day delivery.
 - In a study by McKinsey & Company, the primary aspect of customer service mentioned by customers? [Delivery time.](#)

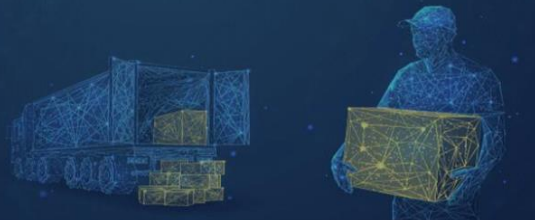


Qatalyst Solves These Highly Complex Computations to Fuel Retail Markets

Example QC Application Transportation Optimization



- **Increases in delivery demands** drive more complex computations to optimize logistics.
- **Uncertainty of availability** of critical supply chain elements mean production is ever-changing. How to optimize delivery under these circumstances.
 - For example, how to deliver automobiles globally with confirmed schedules for production and delivery.
- **Scale of transportation** as Covid lockdowns are removed offer opportunity for better optimization as we reboot airlines, trains and infrastructure.



Example of Qatalyst Quantum-Ready Application Community Detection Application



- Community detection is a broadly useful technique across domains for identifying similarities/ commonalities across diverse groups or profiles.(not just humans)
- Ready-to-run community detection is part of Qatalyst optimization.
- SMEs simply submit their graph problem, QGraph converts, Qatalyst Core solves and QGraph returns results in requested format.



Sales & Marketing
Social Network Analysis for accurate market segmentation and targeting.



Biotechnology
Improved epidemiology models for epidemics.
Cohort segmentation and analysis for improved clinical trial design.



Government/Security
Improved anomaly detection for earlier detection of criminal activity, fraud and cyber bots.

Source: Company reports.

Exhibit 8: Quantum Acquisition of QPhoton (announced May 24, 2022, closed June 16, 2022)

Quantum Computing Inc. Announces Agreement to Acquire QPhoton Delivering First Commercially Available, Ready-to-Run Full-Stack Quantum Solutions

QPhoton's Design for Affordable and Accessible QPS in Combination with QCI's Ready-to-Run Qatalyst Software Positions QCI as the Only Quantum Provider for Non-Quantum Experts

LEESBURG, VA. – May 24, 2022 – Quantum Computing Inc. (“QCI” or the “Company”) (NASDAQ: QUBT), a leader in accessible quantum computing software, today announced that it has entered into a definitive agreement to acquire QPhoton, a quantum photonics innovation company that has developed a series of quantum photonic systems (QPS). The acquisition of QPhoton extends QCI’s offerings to accelerate the accessibility of quantum computing, and other powerful technologies, into easily deployable solutions today, and advances QCI into a full-spectrum quantum software and hardware company.

QPhoton’s QPS, including those for AI and optimization, operate at room temperature and maintain computational stability in a variety of application environments. These unique approaches eliminate the cost and complexity required by the hyper-cooled, tightly controlled environments required by other technology. QPhoton’s QPS is designed to be easily deployed and used at a substantially reduced total cost of ownership relative to competing offerings, while providing substantial quantum advantages.

The QPS for optimization work effectively with QCI’s **Qatalyst™** software, which is designed to eliminate the need for complex quantum programming and runs seamlessly across a variety of quantum computers. This combination sets QCI on a path to delivering a broadly accessible and affordable solution that can be used by non-quantum experts, anywhere, for real-world industry applications.

QPhoton will be a wholly-owned subsidiary of QCI, and Dr. Huang is expected to join QCI as a director and officer. Under the definitive agreement, at the closing of the proposed transaction, QCI will issue to QPhoton’s stockholders aggregate merger consideration consisting of: 5,802,206 shares of QCI’s common stock, 2,377,028 shares of a new series of QCI’s preferred stock, convertible into 23,770,280 shares of common stock (subject to receipt of the approval of QCI’s stockholders), and warrants exercisable, at a purchase price of \$0.0001 per share, to purchase up to 7,028,337 shares of common stock (subject to receipt of the approval of QCI’s stockholders). The merger consideration is subject to adjustment under certain circumstances, such that it will represent in total approximately 49% of the total capital stock of QCI outstanding immediately following the closing. The transaction is expected to close during the third or fourth quarter of 2022 and is subject to customary and other closing conditions, including QCI obtaining a final order from the Court of Chancery of the State of Delaware pursuant to Section 205 of the General Corporation Law of the State of Delaware.

Quantum Computing Inc. Closes Acquisition of QPhoton

- *The combination of QPhoton QPS and QCI’s Qatalyst software represents a major milestone in the quantum computing industry.*
- *The acquisition enables QCI to launch ready-to-run, full-stack quantum systems and extend its solutions in key markets such as supply chain and portfolio optimization, fraud detection, underwriting and government defense and security projects.*
- *The technology operates seamlessly alongside today’s classical technology.*

LEESBURG, VA. – June 16, 2022 – Quantum Computing Inc. (“QCI” or the “Company”) (NASDAQ: QUBT) a leader in accessible quantum computing, today announced the successful completion of its previously announced merger agreement to acquire QPhoton, Inc., a quantum photonics innovation company that has developed a quantum photonic system (QPS). The closing of this transaction will enable QCI to deliver the first ready-to-run, broadly accessible and affordable full-stack QPS that can be used by non-quantum experts, anywhere, for real-world business applications. QCI expects to release initial quantum solutions leveraging QPhoton’s QPS in Q4 2022.

Source: Company reports.

Exhibit 9: Quantum's QPhoton

The QPhoton QPU Advantage

Quantum Anywhere, For Anyone

QCI Ready-to-run Quantum Software
NASDAQ: QUBT

| QPU Requirement | Other QPUs | QPhoton |
|-----------------|---|---------------------------------------|
| Cooling | Hyper Cooled: Temperature of Space or Cooled Room | Room Temperature |
| Environment | Highly unstable, easily collapsed | Stable in most business environments |
| Infrastructure | Beyond supercomputers | No special requirements |
| Deployment/Mtc | Expert care and feeding on cloud or on premise | Deploy anywhere, cloud and on premise |
| PROJECTED TCO-Q | Cooling alone is millions | Like a departmental server |

Affordable, Highly Accessible Quantum Computing

1st Generation vs QCI

QCI Ready-to-run Quantum Software
NASDAQ: QUBT



Hyper-cooled, Hyper-Controlled Environment




QCI QPhoton
2u Rackable Blade Chassis

The difference is obvious


Dramatic Acceleration of Commercial Quantum Computing

Evolution of Classical Computing

QCI Ready-to-run Quantum Software
NASDAQ: QUBT



1945
ENIAC



1964
IBM System 360




1983
First PC

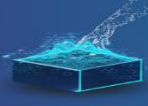
39 years to Desktop Classical



2019
Gate Model QC



2022
QCI/QPhoton Cloud



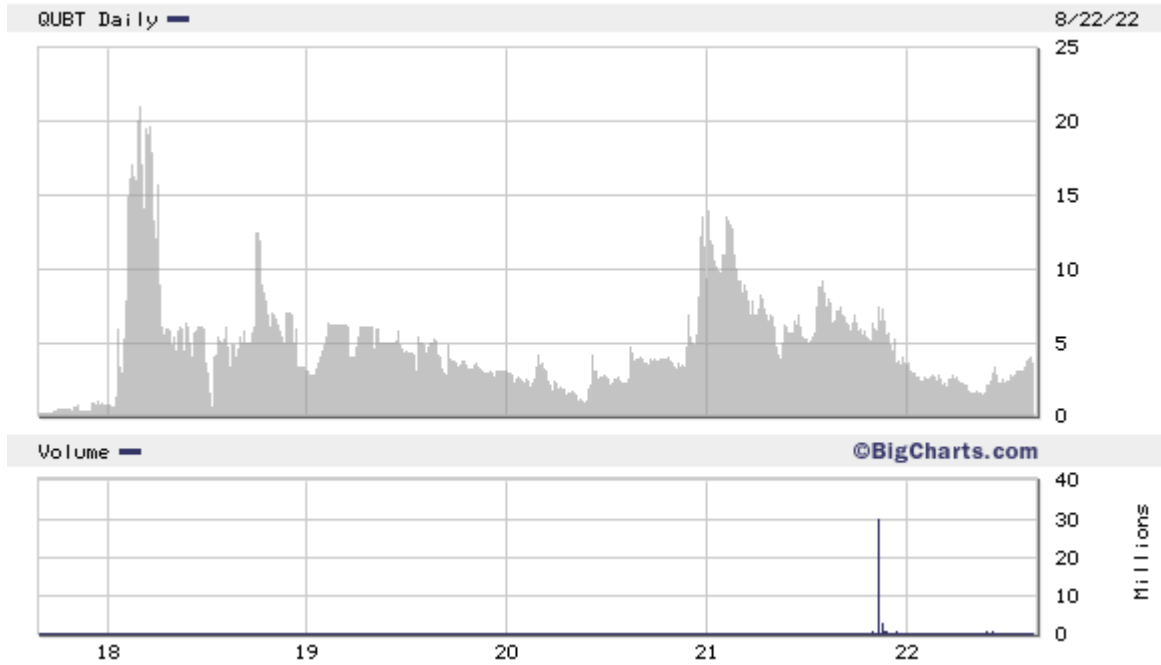
2023/4
QCI/QPhoton
On Premise/Desktop

5-6 years to Desktop Quantum

Significantly Expanding QCI Total Available Market/Revenue Opportunities

Source: Company reports.

Exhibit 10: Quantum Computing Inc. Stock Price (5-Years)



Source: <https://bigcharts.marketwatch.com/>

FINANCIAL MODEL

Quantum Computing Inc.

| Income Statement (\$ mils) | 2018 | Mar-19 | Jun-19 | Sep-19 | Dec-19 | 2019 | Mar-20 | Jun-20 | Sep-20 | Dec-20 | 2020 | Mar-21 | Jun-21 | Sep-21 | Dec-21 | 2021 | Mar-22 | Jun-22 | Sep-22 | Dec-22 | 2022 | Mar-23 | Jun-23 | Sep-23 | Dec-23 | 2023 |
|----------------------------------|----------------|---------------|---------------|-------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|
| Fiscal Year End: December 31 | FY-A | Q1A | Q2A | Q3A | Q4A | FY-A | Q1A | Q2A | Q3A | Q4A | FY-A | Q1A | Q2A | Q3A | Q4A | FY-A | Q1A | Q2A | Q3E | Q4E | FY-E | Q1E | Q2E | Q3E | Q4E | FY-E |
| Total Revenue | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 | 0.20 | 0.67 | 0.97 | 1.00 | 1.00 | 1.00 | 2.00 | 5.00 |
| Cost of Revenues | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.08 | 0.27 | 0.36 | 0.40 | 0.40 | 0.40 | 0.80 | 2.00 |
| Gross Profit | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.12 | 0.40 | 0.60 | 0.60 | 0.60 | 0.60 | 1.20 | 3.00 |
| Salaries | 0.52 | 0.12 | 0.12 | 0.12 | 0.14 | 0.50 | 0.16 | 0.13 | 0.12 | 0.22 | 0.64 | 0.25 | 0.51 | 0.66 | 1.08 | 2.49 | 1.12 | 1.36 | 1.60 | 1.60 | 5.67 | 1.70 | 1.70 | 1.70 | 1.70 | 6.80 |
| Consulting | 0.32 | 0.08 | 0.09 | 0.08 | 0.12 | 0.36 | 0.08 | 0.06 | 0.28 | 1.26 | 1.68 | 0.30 | 0.23 | 0.30 | 0.24 | 1.08 | 0.37 | 0.26 | 0.30 | 0.30 | 1.23 | 0.30 | 0.30 | 0.30 | 0.30 | 1.20 |
| Research & Development | 0.25 | 0.15 | 0.15 | 0.26 | 0.34 | 0.89 | 0.34 | 0.34 | 0.29 | 0.57 | 1.54 | 0.63 | 0.57 | 0.61 | 0.78 | 2.59 | 1.02 | 0.85 | 1.20 | 1.20 | 4.28 | 1.30 | 1.30 | 1.30 | 1.30 | 5.20 |
| Stock Based Compensation | 4.18 | 0.07 | 1.49 | (1.34) | 0.00 | 0.21 | 1.01 | 0.23 | 6.56 | 3.38 | 11.18 | 1.98 | 2.55 | 2.58 | 2.29 | 9.40 | 3.08 | 0.32 | 0.32 | 0.32 | 4.05 | 0.50 | 0.50 | 0.50 | 0.50 | 2.00 |
| Related Party Marketing | | | | | | 0.00 | | | 0.10 | 0.04 | 0.14 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Selling General & Administrative | 0.52 | 0.17 | 0.15 | 0.10 | 0.17 | 0.59 | 0.14 | 0.16 | 1.32 | 0.54 | 2.16 | 0.24 | 0.48 | 0.63 | 0.23 | 1.58 | 1.14 | 2.08 | 2.30 | 2.30 | 7.82 | 2.50 | 2.50 | 2.50 | 2.50 | 10.00 |
| Restructuring and other | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Total operating expenses | 5.80 | 0.58 | 1.98 | (0.78) | 0.77 | 2.55 | 1.74 | 0.92 | 8.68 | 6.01 | 17.34 | 3.39 | 4.33 | 4.78 | 4.63 | 17.13 | 6.73 | 4.87 | 5.72 | 5.72 | 23.04 | 6.30 | 6.30 | 6.30 | 6.30 | 25.20 |
| Operating income (loss) | (5.80) | (0.58) | (1.98) | 0.78 | (0.77) | (2.55) | (1.74) | (0.92) | (8.68) | (6.01) | (17.34) | (3.39) | (4.33) | (4.78) | (4.63) | (17.13) | (6.71) | (4.81) | (5.60) | (5.32) | (22.44) | (5.70) | (5.70) | (5.70) | (5.10) | (22.20) |
| Interest income (expense) | (4.08) | (0.05) | (0.05) | (0.01) | (5.72) | (5.83) | (0.13) | (1.62) | (2.98) | (3.11) | (7.83) | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | (0.42) | (0.30) | 0.00 | 0.00 | (0.72) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other income (expense) | (0.63) | | | | | 0.00 | 1.17 | 0.75 | | (1.48) | 0.44 | 0.22 | | (10.99) | (10.78) | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Income before income taxes | (10.51) | (0.64) | (2.03) | 0.77 | (6.48) | (8.38) | (0.70) | (1.78) | (11.66) | (10.60) | (24.73) | (3.39) | (4.11) | (4.78) | (15.62) | (27.90) | (7.13) | (5.10) | (5.60) | (5.32) | (23.16) | (5.70) | (5.70) | (5.70) | (5.10) | (22.20) |
| Income taxes | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Net income (loss) | (10.51) | (0.64) | (2.03) | 0.77 | (6.48) | (8.38) | (0.70) | (1.78) | (11.66) | (10.60) | (24.73) | (3.39) | (4.11) | (4.78) | (15.62) | (27.90) | (7.13) | (5.10) | (5.60) | (5.32) | (23.16) | (5.70) | (5.70) | (5.70) | (5.10) | (22.20) |
| Nonrecurring/noncash adjustments | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Net income (pro forma) | (10.51) | (0.64) | (2.03) | 0.77 | (6.48) | (8.38) | (0.70) | (1.78) | (11.66) | (10.60) | (24.73) | (3.39) | (4.11) | (4.78) | (15.62) | (27.90) | (7.13) | (5.10) | (5.60) | (5.32) | (23.16) | (5.70) | (5.70) | (5.70) | (5.10) | (22.20) |
| EBITDA | (1.77) | (0.51) | (0.50) | (0.56) | (0.76) | (2.33) | (0.72) | (2.02) | (0.79) | (2.63) | (6.16) | (1.16) | (1.86) | (1.79) | (2.10) | (6.92) | (3.72) | (4.57) | (5.37) | (5.09) | (18.75) | (5.47) | (5.47) | (5.47) | (4.87) | (21.26) |
| Shares, Basic | 4.7 | 4.7 | 5.3 | 7.4 | 7.4 | 7.4 | 7.8 | 8.6 | 17.2 | 28.0 | 28.0 | 28.7 | 29.1 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 | 34.0 | 34.5 | 31.7 | 34.8 | 35.1 | 35.4 | 35.7 | 35.3 |
| Shares, Diluted | 4.7 | 4.7 | 5.3 | 7.4 | 7.4 | 7.4 | 7.8 | 8.6 | 17.2 | 28.0 | 28.0 | 28.7 | 29.1 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 | 34.0 | 34.5 | 31.7 | 34.8 | 35.1 | 35.4 | 35.7 | 35.3 |
| EPS Basic (pro forma) | (\$2.22) | (\$0.13) | (\$0.38) | \$0.10 | (\$0.88) | (\$1.14) | (\$0.09) | (\$0.21) | (\$0.68) | (\$0.38) | (\$0.88) | (\$0.12) | (\$0.14) | (\$0.16) | (\$0.54) | (\$0.96) | (\$0.24) | (\$0.17) | (\$0.16) | (\$0.15) | (\$0.73) | (\$0.16) | (\$0.16) | (\$0.16) | (\$0.14) | (\$0.63) |
| EPS Diluted (pro forma) | (\$2.22) | (\$0.13) | (\$0.38) | \$0.10 | (\$0.88) | (\$1.14) | (\$0.09) | (\$0.21) | (\$0.68) | (\$0.38) | (\$0.88) | (\$0.12) | (\$0.14) | (\$0.16) | (\$0.54) | (\$0.96) | (\$0.24) | (\$0.17) | (\$0.16) | (\$0.15) | (\$0.73) | (\$0.16) | (\$0.16) | (\$0.16) | (\$0.14) | (\$0.63) |
| Margins | | | | | | | | | | | | | | | | | 63% | 92% | 60% | 60% | 62% | 60% | 60% | 60% | 60% | 60% |
| Gross margin | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salaries | | | | | | -5% | 43% | 15% | 1% | 55% | 30% | 49% | 279% | 444% | 383% | 287% | 355% | 167% | 144% | 48% | 128% | 52% | 25% | 6% | 6% | 20% |
| Consulting | | | | | | 12% | -1% | -26% | 251% | 985% | 366% | 298% | 257% | 6% | -81% | -36% | 22% | 12% | -1% | 23% | 14% | -19% | 17% | 0% | 0% | -2% |
| Research and development | | | | | | 256% | 128% | 131% | 12% | 69% | 73% | 81% | 69% | 114% | 37% | 68% | 64% | 50% | 96% | 54% | 65% | 27% | 53% | 8% | 8% | 22% |
| General and administrative | | | | | | 12% | -16% | 8% | 1197% | 219% | 269% | 72% | 201% | -53% | -57% | -27% | 371% | 335% | 268% | 891% | 396% | 120% | 20% | 9% | 9% | 28% |
| Operating margin | | | | | | -56% | 198% | -54% | -1206% | 685% | 581% | 95% | 372% | -45% | -23% | -1% | 98% | 11% | 17% | 15% | 31% | -15% | 19% | 2% | -4% | -1% |
| Tax rate, GAAP | | | | | | -20% | 10% | -13% | -1613% | 64% | 195% | 386% | 131% | -59% | 47% | 13% | 110% | 24% | 17% | -66% | -17% | -20% | 12% | 2% | -4% | -4% |
| Net margin | | | | | | -49% | -33% | -46% | -748% | -57% | -22% | 31% | -32% | -76% | 42% | 8% | 107% | 24% | 1% | -71% | -24% | -33% | -7% | -2% | -7% | -14% |
| Y/Y % change | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Revenue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gross margin | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salaries | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consulting | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Research and development | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General and administrative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating income (loss) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Net income (loss) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EPS Diluted (pro forma) | | | | | | | | | | | | | | | | | | | | | | | | | | |

Source: Company reports and Ascendant Capital Markets estimates.

Quantum Computing Inc.

| Balance Sheet (\$ mils) | Dec-18 | Mar-19 | Jun-19 | Sep-19 | Dec-19 | Mar-20 | Jun-20 | Sep-20 | Dec-20 | Mar-21 | Jun-21 | Sep-21 | Dec-21 | Mar-22 | Jun-22 | Sep-22 | Dec-22 | Mar-23 | Jun-23 | Sep-23 | Dec-23 | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|--|
| Fiscal Year End: December 31 | Q4A | Q1A | Q2A | Q3A | Q4A | Q1A | Q2A | Q3A | Q4A | Q1A | Q2A | Q3A | Q4A | Q1A | Q2A | Q3E | Q4E | Q1E | Q2E | Q3E | Q4E | |
| Assets | | | | | | | | | | | | | | | | | | | | | | |
| Cash and cash equivalents | 1.77 | 1.33 | 0.81 | 0.31 | 0.10 | 0.20 | 0.50 | 3.98 | 15.20 | 13.77 | 12.63 | 10.43 | 16.74 | 11.51 | 6.74 | 1.45 | (3.76) | (9.35) | (15.07) | (20.66) | (25.77) | |
| Short term investments | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Accounts receivable, net | | | | | | | | | | | | | | 0.03 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Inventory | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Deferred income taxes | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Prepaid expenses and other | 0.02 | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.04 | 0.29 | 0.24 | 0.61 | 0.50 | 1.71 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | |
| Total current assets | 1.79 | 1.35 | 0.82 | 0.32 | 0.12 | 0.21 | 0.51 | 3.98 | 15.24 | 14.06 | 12.87 | 11.05 | 17.24 | 13.25 | 7.25 | 1.88 | (3.33) | (8.92) | (14.64) | (20.23) | (25.35) | |
| Property and equipment, net | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.16 | 0.16 | 0.28 | 0.40 | 0.65 | 0.76 | 1.01 | |
| Intangibles, net | | | | | | | | | | | | | | | 84.35 | 84.35 | 84.35 | 84.35 | 84.35 | 84.35 | 84.35 | |
| Deferred income tax | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Other | | | | | | | | | | | | | | 0.01 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | |
| Total assets | 1.80 | 1.35 | 0.82 | 0.33 | 0.15 | 0.24 | 0.53 | 4.01 | 15.27 | 14.09 | 12.90 | 11.08 | 17.28 | 13.30 | 91.88 | 86.51 | 81.41 | 75.94 | 70.47 | 65.00 | 60.13 | |
| Liabilities and stockholders' equity | | | | | | | | | | | | | | | | | | | | | | |
| Accounts payable | 0.05 | 0.11 | 0.10 | 0.16 | 0.22 | 0.21 | 0.29 | 0.17 | 0.37 | 0.25 | 0.59 | 0.46 | 0.46 | 0.80 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 | |
| Accrued expenses | 0.09 | 0.16 | 0.21 | 0.10 | 0.15 | 0.21 | 0.29 | 0.26 | 0.11 | 0.13 | 0.19 | 0.30 | 0.48 | 0.01 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | |
| Deferred revenue | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Deferred income tax | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Warrant liabilities | | | | | | 0.48 | 0.92 | 1.15 | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Other | | 0.00 | | | 0.98 | | | | | | 0.03 | 0.02 | 0.14 | 0.23 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | |
| Short term debt | 3.17 | 3.17 | 3.12 | 1.11 | 1.61 | 1.55 | 2.03 | 1.81 | 0.22 | 0.22 | | | | 0.22 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total current liabilities | 3.31 | 3.44 | 3.43 | 1.37 | 2.96 | 2.45 | 3.52 | 3.39 | 0.69 | 0.60 | 0.80 | 0.78 | 1.08 | 1.04 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | |
| Deferred income taxes | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Warrant liabilities | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Other long term liabilities | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Deferred revenue | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Long term debt | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total other liabilities | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Preferred stock | | | | | | | | | | | | | | 0.00 | 0.00 | | | 0.69 | 0.92 | 1.15 | 1.38 | |
| Common stock | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.46 | 0.69 | 0.92 | 1.15 | 1.38 | |
| Additional paid-in capital | 18.86 | 18.93 | 20.44 | 21.24 | 25.95 | 27.25 | 28.24 | 43.51 | 68.07 | 70.37 | 73.09 | 76.07 | 97.59 | 100.79 | 184.21 | 184.21 | 184.21 | 184.21 | 184.21 | 184.21 | 184.21 | |
| Retained earnings | (20.38) | (21.02) | (23.05) | (22.28) | (28.76) | (29.46) | (31.24) | (42.90) | (53.50) | (56.89) | (61.00) | (65.77) | (81.39) | (88.53) | (93.63) | (99.24) | (104.56) | (110.26) | (115.96) | (121.66) | (126.76) | |
| Accumulated other comprehensive income | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Other | | | | | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total stockholders' equity | (1.52) | (2.08) | (2.61) | (1.04) | (2.81) | (2.20) | (2.99) | 0.62 | 14.57 | 13.49 | 12.10 | 10.30 | 16.20 | 12.27 | 90.58 | 85.21 | 80.11 | 74.64 | 69.17 | 63.70 | 58.83 | |
| Total stockholders' equity and liabil | 1.80 | 1.35 | 0.82 | 0.33 | 0.15 | 0.24 | 0.53 | 4.01 | 15.27 | 14.09 | 12.90 | 11.08 | 17.28 | 13.30 | 91.88 | 86.51 | 81.41 | 75.94 | 70.47 | 65.00 | 60.13 | |

Balance Sheet Drivers

| | Dec-18 | Mar-19 | Jun-19 | Sep-19 | Dec-19 | Mar-20 | Jun-20 | Sep-20 | Dec-20 | Mar-21 | Jun-21 | Sep-21 | Dec-21 | Mar-22 | Jun-22 | Sep-22 | Dec-22 | Mar-23 | Jun-23 | Sep-23 | Dec-23 | |
|--|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--|
| | Q4A | Q1A | Q2A | Q3A | Q4A | Q1A | Q2A | Q3A | Q4A | Q1A | Q2A | Q3A | Q4A | Q1A | Q2A | Q3E | Q4E | Q1E | Q2E | Q3E | Q4E | |
| Prepaid as % of total rev | | | | | | | | | | | | | | | | | | | | | | |
| Accounts payable as % of total rev | | | | | | | | | | | | | | | | | | | | | | |
| Accrued expenses as % of total rev | | | | | | | | | | | | | | | | | | | | | | |
| Activity Ratios | | | | | | | | | | | | | | | | | | | | | | |
| A/R Days Sales Outstanding | | | | | | | | | | | | | | | | | | | | | | |
| Book & Cash Value (per share) | | | | | | | | | | | | | | | | | | | | | | |
| Book Value per Share (diluted) | -\$0.32 | -\$0.44 | -\$0.49 | -\$0.14 | -\$0.38 | -\$0.28 | -\$0.35 | \$0.04 | \$0.52 | \$0.47 | \$0.42 | \$0.35 | \$0.56 | \$0.42 | \$3.10 | \$2.51 | \$2.32 | \$2.14 | \$1.97 | \$1.80 | \$1.65 | |
| Cash per Share (diluted) | \$0.37 | \$0.28 | \$0.15 | \$0.04 | \$0.01 | \$0.03 | \$0.06 | \$0.23 | \$0.54 | \$0.48 | \$0.43 | \$0.36 | \$0.57 | \$0.39 | \$0.23 | \$0.04 | -\$0.11 | -\$0.27 | -\$0.43 | -\$0.58 | -\$0.72 | |
| Net cash per Share (diluted) | -\$0.30 | -\$0.39 | -\$0.44 | -\$0.11 | -\$0.20 | -\$0.17 | -\$0.18 | \$0.13 | \$0.53 | \$0.47 | \$0.43 | \$0.36 | \$0.57 | \$0.39 | \$0.23 | \$0.04 | -\$0.11 | -\$0.27 | -\$0.43 | -\$0.58 | -\$0.72 | |

Source: Company reports and Ascendant Capital Markets estimates

Quantum Computing Inc.

| Cash Flow Statement (\$ mils) | 2018 | Mar-19 | Jun-19 | Sep-19 | Dec-19 | 2019 | Mar-20 | Jun-20 | Sep-20 | Dec-20 | 2020 | Mar-21 | Jun-21 | Sep-21 | Dec-21 | 2021 | Mar-22 | Jun-22 | Sep-22 | Dec-22 | 2022 | Mar-23 | Jun-23 | Sep-23 | Dec-23 | 2023 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|
| Fiscal Year End: December 31 | FY-A | Q1A | Q2A | Q3A | Q4A | FY-A | Q1A | Q2A | Q3A | Q4A | FY-A | Q1A | Q2A | Q3A | Q4A | FY-A | Q1A | Q2A | Q3E | Q4E | FY-E | Q1E | Q2E | Q3E | Q4E | FY-E |
| Cash flow from operating activities | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Net income | (10.51) | (0.64) | (2.03) | 0.77 | (6.48) | (8.38) | (0.70) | (1.78) | (11.66) | (10.60) | (24.73) | (3.39) | (4.11) | (4.78) | (15.62) | (27.90) | (7.13) | (5.10) | (5.60) | (5.32) | (23.16) | (5.70) | (5.70) | (5.70) | (5.10) | (22.20) |
| Depreciation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| Amortization | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | 0.25 | | 0.25 | | | | | 0.00 |
| Debt related amortization expense | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Stock comp | 4.03 | 0.07 | 1.49 | (1.34) | | 0.21 | 1.01 | (1.10) | 7.89 | 3.38 | 11.18 | 2.23 | 2.46 | 2.99 | 2.53 | 10.20 | 2.99 | 0.23 | 0.23 | 0.23 | 3.67 | 0.23 | 0.23 | 0.23 | 0.23 | 0.92 |
| Deferred income taxes | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Change in fair value of warrant | 4.00 | | | | 5.69 | 5.69 | (0.64) | 0.58 | 0.87 | 1.12 | 1.93 | | | | 10.72 | 10.72 | | | | | 0.00 | | | | | 0.00 |
| Writedowns and impairments | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Other gains/losses | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Other | | | | | | 0.00 | | | | | 0.00 | | | | 0.02 | | 0.08 | (0.08) | | | 0.00 | | | | | 0.00 |
| Changes in operating assets and liabilities: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accounts receivable | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | (0.03) | (0.06) | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Inventory | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Prepaid expenses & other current assets | (0.02) | 0.01 | 0.01 | 0.00 | (0.01) | 0.00 | 0.01 | 0.01 | 0.00 | (0.04) | (0.02) | (0.25) | 0.08 | (0.38) | 0.11 | (0.44) | 0.03 | 0.03 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Income tax | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other assets | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Accounts payable | 0.05 | 0.05 | (0.01) | 0.06 | 0.06 | 0.16 | (0.01) | 0.08 | (0.12) | 0.20 | 0.15 | (0.12) | 0.34 | (0.13) | 0.01 | 0.10 | 0.33 | (0.04) | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Accrued expenses | 0.09 | 0.07 | 0.05 | (0.10) | 0.05 | 0.06 | 0.06 | 0.07 | (0.03) | (0.15) | (0.04) | 0.03 | 0.05 | 0.11 | 0.30 | 0.49 | (0.47) | 0.29 | 0.00 | 0.00 | (0.18) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Deferred revenue | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other liabilities | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Net cash (used in) provided by | (2.36) | (0.43) | (0.50) | (0.61) | (0.70) | (2.24) | (0.27) | (2.14) | (3.04) | (6.09) | (11.54) | (1.51) | (1.17) | (2.19) | (1.94) | (6.80) | (4.19) | (4.38) | (5.29) | (5.09) | (18.95) | (5.47) | (5.47) | (5.47) | (4.87) | (21.26) |
| Cash flow from investing activities | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purchases of property and equipment | (0.01) | | | (0.01) | (0.01) | (0.02) | (0.00) | | | (0.01) | (0.01) | (0.00) | | (0.00) | (0.01) | (0.02) | (0.00) | (0.12) | (0.00) | (0.12) | (0.25) | (0.12) | (0.25) | (0.12) | (0.25) | (0.75) |
| Purchases of short-term investments | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Acquisitions | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | (84.60) | | | | | (84.60) |
| Other | | | | | | 0.00 | | | | | 0.00 | | (0.00) | | (0.02) | (0.02) | (1.24) | 1.14 | | | (0.10) | | | | | 0.00 |
| Net cash used in investing activities | (0.01) | 0.00 | 0.00 | (0.01) | (0.01) | (0.02) | (0.00) | 0.00 | 0.00 | (0.01) | (0.01) | (0.00) | (0.00) | (0.00) | (0.03) | (0.04) | (1.24) | (83.58) | (0.00) | (0.12) | (84.95) | (0.12) | (0.25) | (0.12) | (0.25) | (0.75) |
| Cash flow from financing activities | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Issuance of debt | 3.07 | | | | | 0.00 | 0.16 | 0.04 | 0.02 | 0.22 | 0.22 | | | | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Repayment of debt | | | (0.03) | (2.04) | 0.50 | (1.56) | (0.06) | 0.32 | (0.26) | (1.61) | (1.61) | | (0.22) | | 0.00 | (0.22) | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Issuance of stock | 1.06 | | | 2.16 | | 2.16 | 0.43 | 1.95 | 6.74 | 18.91 | 28.04 | 0.08 | 0.25 | (0.00) | 8.28 | 8.61 | 0.21 | 0.11 | 0.00 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Proceeds from stock option exercises | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 83.08 | | | | | 83.08 |
| Cash provided by (used in) financing activities | 4.13 | 0.00 | (0.03) | 0.13 | 0.50 | 0.60 | 0.37 | 2.44 | 6.52 | 17.32 | 26.65 | 0.08 | 0.03 | (0.00) | 8.28 | 8.39 | 0.21 | 83.19 | 0.00 | 0.00 | 83.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Effect of exchange rate on cash | | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Net increase (decrease) in cash | 1.77 | (0.43) | (0.53) | (0.50) | (0.21) | (1.67) | 0.10 | 0.30 | 3.48 | 11.22 | 15.10 | (1.43) | (1.14) | (2.19) | 6.31 | 1.54 | (5.23) | (4.77) | (5.29) | (5.21) | (20.50) | (5.59) | (5.72) | (5.59) | (5.12) | (22.02) |
| Beginning cash and equivalents | 0.00 | 1.77 | 1.33 | 0.81 | 0.31 | 1.77 | 0.10 | 0.20 | 0.50 | 3.98 | 0.10 | 15.20 | 13.77 | 12.63 | 10.43 | 15.20 | 16.74 | 11.51 | 6.74 | 1.45 | 16.74 | (3.76) | (9.35) | (15.07) | (20.66) | (3.76) |
| Ending cash and equivalents | 1.77 | 1.33 | 0.81 | 0.31 | 0.10 | 0.10 | 0.20 | 0.50 | 3.98 | 15.20 | 15.20 | 13.77 | 12.63 | 10.43 | 16.74 | 16.74 | 11.51 | 6.74 | 1.45 | (3.76) | (3.76) | (9.35) | (15.07) | (20.66) | (25.77) | (25.77) |

Source: Company reports and Ascendant Capital Markets estimates

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Quantum Computing Inc.

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Ascendant Capital Markets, LLC Rating System

BUY: We expect the stock to provide a total return of 15% or more within a 12-month period.

HOLD: We expect the stock to provide a total return of negative 15% to positive 15% within a 12-month period.

SELL: We expect the stock to have a negative total return of more than 15% within a 12-month period.

Total return is defined as price appreciation plus dividend yield.

Ascendant Capital Markets, LLC Rating System

Prior to January 31, 2014, ASCM used the following rating system:

Strong Buy: We expect the stock to provide a total return of 30% or more within a 12-month period.

Buy: We expect the stock to provide a total return of between 10% and 30% within a 12-month period.

Neutral: We expect the stock to provide a total return of between minus 10% and plus 10% within a 12-month period.

Sell: We expect the stock to provide a total return of minus 10% or worse within a 12-month period.

Speculative Buy: This rating is reserved for companies we believe have tremendous potential, but whose stocks are illiquid or whose equity market capitalizations are very small, often in the definition of a nano cap (below \$50 million in market cap). In general, for stocks ranked in this category, we expect the stock to provide a total return of 50% or more within a 12-month period. However, because of the illiquid nature of the stock's trading and/or the nano cap nature of the investment, we caution that these investments may not be suitable for all parties.

Total return is defined as price appreciation plus dividend yield.

Ascendant Capital Markets, LLC Distribution of Investment Ratings (as of July 14, 2022)

| Rating | Count | Percent | Investment Banking Services Past 12 months | |
|--------|-------|---------|---|---------|
| | | | Count | Percent |
| Buy | 41 | 98% | 15 | 37% |
| Hold | 0 | 0% | 0 | 0% |
| Sell | 1 | 2% | 0 | 0% |
| Total | 42 | 100% | 15 | 36% |

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