



**(Phys.org) (<https://phys.org/news/2019-10-quantum-chip-smaller-current-setups.html>)** Researchers at Nanyang Technological University, Singapore (NTU Singapore) have developed a quantum communication chip that is 1,000 times smaller than current quantum setups, but offers the same superior security quantum technology is known for.

Roughly three millimeters in size, the tiny chip uses quantum communication algorithms to provide enhanced security compared to existing standards. It does this by integrating passwords within the information that is being delivered, forming a secure quantum key. After the information is received, it is destroyed along with the key, making it an extremely secure form of communication.

Prof Liu, who is from NTU's School of Electrical and Electronic Engineering, said, "In today's world, cyber security is very important as so much of our data are stored and communicated digitally. Almost all digital platforms and repositories require users to input their passwords and biometric data, and as long as this is the case, it could be eavesdropped on or deciphered. Quantum technology eliminates this as both the password and information are integrated within the message being sent, forming a quantum key."



(<http://iqtevent.com/>)

## LATEST REPORTS

Influential Quantum Networks: Profiles and Strategies

(<https://www.insidequantumtechnology.com/product/influential-quantum-networks-profiles-strategies/>)

Oct 16 2019

Read More (<https://www.insidequantumtechnology.com/product/influential-quantum-networks-profiles-strategies/>)

---

Quantum Repeaters: A Market and Technology Appraisal

(<https://www.insidequantumtechnology.com/product/quantum-repeaters-a-market-and-technology-appraisal/>)

Sep 03 2019

Read More (<https://www.insidequantumtechnology.com/product/quantum-repeaters-a-market-and-technology-appraisal/>)

---

Quantum Computing Strategies: 2019

(<https://www.insidequantumtechnology.com/product/quantum-computing-strategies-2019/>)

Jul 08 2019

Read More (<https://www.insidequantumtechnology.com/product/quantum-computing-strategies-2019/>)

## LATEST NEWS

Firth Ratings Warns Quantum Computing Poses Cyber Threat to Insurers

(<https://www.insidequantumtechnology.com/news/firth-ratings-warns-quantum-computing->

poses-cyber-threat-insurers/)

Nov 01 2019

Read More (<https://www.insidequantumtechnology.com/news/firth-ratings-warns-quantum-computing-poses-cyber-threat-insurers/>)

---

1QBit to Open Sherbrooke Office in Partnership with Université de Sherbrooke  
(<https://www.insidequantumtechnology.com/news/1qbit-open-sherbrooke-office-partnership-universite-de-sherbrooke/>)

Nov 01 2019

Read More (<https://www.insidequantumtechnology.com/news/1qbit-open-sherbrooke-office-partnership-universite-de-sherbrooke/>)

---

Volkswagen Testing Lisbon Bus Operation Optimization in Collaboration with D-Wave  
(<https://www.insidequantumtechnology.com/news/volkswagen-testing-lisbon-bus-operation-optimization-collaboration-d-wave/>)

Nov 01 2019

Read More (<https://www.insidequantumtechnology.com/news/volkswagen-testing-lisbon-bus-operation-optimization-collaboration-d-wave/>)

## LATEST BLOG POSTS

Network Security: A Pioneer Market for Quantum Memories

(<https://www.insidequantumtechnology.com/network-security-pioneer-market-quantum-memories/>)

Oct 09 2019

Read More (<https://www.insidequantumtechnology.com/network-security-pioneer-market-quantum-memories/>)

---

On IBM Quantum Tape Drive – Perfect Place for Start Integrating PQC?

(<https://www.insidequantumtechnology.com/ibm-quantum-tape-drive-perfect-place-start-integrating-pqc/>)

Sep 18 2019

Read More (<https://www.insidequantumtechnology.com/ibm-quantum-tape-drive-perfect-place-start-integrating-pqc/>)

---

QRNGs: Real Market Drivers (<https://www.insidequantumtechnology.com/qrngs-real-market-drivers/>)

Aug 14 2019

Read More (<https://www.insidequantumtechnology.com/qrngs-real-market-drivers/>)