

# Quantum Communication Server Rack Resistant to Low Temperatures



## Overview

As a pioneer, QCT created its QoolRack, a rack-level direct-to-chip cooling solution, that adopts a cold plate design to meet customers' thermal demands in 2022. How do I design a room temperature microwave control electronics rack for a quantum computing system?

Designing a room temperature microwave control electronics rack for a quantum computing system provides the microwave signal generation, modulation, and readout infrastructure that controls the. Recently, we had the opportunity to head to Taiwan and check out the Quanta QCT QoolRack liquid-cooled rack solution with a little twist. We were also able to set up an Intel Xeon Max test as well. We had the opportunity to take the QoolRack for a spin and show power savings in a rack due to more. MARMOT operates in a comfortable room temperature environment and consumes less than 2kW of electrical power, ideal for the installation at high-performance computing infrastructures, data-centers or offices. And since then, QCT has developed its liquid -to-air cooling rack, also known as QoolRack, that reduces power consumption by up to 66. Classical – What Changes in the Physical World?

To understand why “quantum-ready” infrastructure is different, it helps to compare the physical realities of quantum and classical computing.



## Article Content

### QCT QoolRack Solution Serves as the Latest

This ready-to-ship solution can save rack-level cooling power consumption by nearly 70%, as it can be operated without adjusting the heating,

Research on cooling performance of a built-in cooling equipment for ...

To address the challenges of high energy consumption and the significant risk of overheating associated with cooling systems in data centers, a rack-based cooling equipment was

### Quanta QCT QoolRack Liquid Cooling Intel Xeon Max Overview

The QCT QoolRack is the company's fully integrated rack solution. This is not a liquid cooling solution where you buy a few cold plates and components from different vendors. Instead, it

### How Quantum Computing Will Influence Server and

In this blog, we'll break down how quantum computing will reshape server and data center design — from quantum-classical hybrid architectures to

### Precision Thermal & EMI Solutions for Quantum

Find the right enclosure for your quantum computing system. Learn how nVent Schroff's modular, thermally stable, and EMI-shielded enclosures support

### Equal1 | Rack-Mounted Quantum Computers

Equal1's rack-mounted quantum computers deploy alongside CPUs and GPUs, in the infrastructure your teams already operate. Equal1 is changing that paradigm,

### Quantum-Ready Data Centers | Building for the Next Superclusters —

Discover how data centers must evolve to support quantum computing. From design to infrastructure, explore the blueprint for tomorrow's superclusters.

### Xanadu | Xanadu introduces Aurora: world's first

Xanadu has achieved a world-first in the quantum computing industry by successfully building a universal photonic quantum computer

## Contact Us

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