

“It was an impressive journey with Taoglas. Not only did the team provide integration and pre-certification services in record time, we also now see superior performance in the field of our device.”

**Felix Adamczyk**  
CEO, qiiio®



## Taoglas helps qiiio® receive Network Optimized Certification from AT&T®

### About qiiio:

qiiio® offers plug-and-play, edge-to-cloud cellular Internet of Things (IoT) solutions that provide its customers with everything they need to securely connect, monitor, and control their industrial assets. qiiio’s solutions are designed for applications such as remote management, monitoring and predictive maintenance in hard-to-reach locations. [The qiiio q200 Guardian](#) is the world’s first solution specifically optimized for secure, bi-directional cellular connectivity supporting IoT deployments running on Microsoft’s Azure Sphere

### The Challenge:

qiiio is headquartered in Zurich and manufactures all its hardware in Switzerland and Germany. To expand into the U.S. market, qiiio needed the q200 to receive mobile operator certification.

Carrier certification is key because it gives IoT systems integrators and end users the confidence that their q200-based implementation will work correctly on each operator’s network. But carrier certification is challenging for companies that do not have RF expertise and experience navigating the unique requirements of each mobile operator, at times it can seem virtually impossible.

### The Solution:

Initially, qiiio tried a small antenna, with a large keep out zone and complicated matching circuit. The understanding being that there would not be significant tradeoffs compared to a larger surface mount technology (SMT) antenna with a conventional, more straight forward, matching circuit. This was not and is never the case. Qiiio reached out to Taoglas to recover the initial time lost. Through Taoglas’ large portfolio of high-performance products and world class engineering support qiiio achieved cellular certification quickly - saving qiiio time and ensuring on schedule delivery to their major customers worldwide.

With Taoglas’ guidance qiiio chose [the Havok PCS.26, a low-profile SMT LTE/cellular 2G/3G/4G embedded antenna, the Unifier GGBLA.01.A Loop GPS-GLONASS-GALILEO-BEIDOU antenna](#) and [the WLA.01 WLAN/Wi-Fi/Bluetooth/Zigbee antenna](#). Using one of its nine state of the art chambers worldwide Taoglas had the capabilities to test, check protocol procedures

and provide technical support across multiple time zones. The Taoglas team worked with qiiio from beginning to end to ensure that the performance of the overall solution was optimum and in line with US certification requirements.



### The Outcome:

The successful cooperation with Taoglas was an important step for qiiio and its product q200 Guardian to receive the Network Optimized Certification from AT&T, the world’s largest telecommunications company. This is the first time worldwide that a cellular Microsoft Azure Sphere enabled device has been certified, making qiiio an integral part of AT&T IoT solutions in North America as well as globally. Taoglas’ state-of-the art products, their professionalism as well as our mutual understanding of quality, has made them a reliable and respected partner for qiiio.

Quote from Felix Adamczyk, CEO of qiiio: “It was an impressive journey with Taoglas. Not only did the team provide integration and pre-certification services in record time, we also now see superior performance in the field of our device. In fact, the qiiio q200 Guardian is working and receiving data in areas where cellular coverage via mobile phones is challenging. We’re thrilled with the Taoglas partnership and all the support the team has provided.”



### Featured Taoglas Product

#### PCS.26.A

Low Profile LTE/Cellular SMD Dielectric Antenna  
Dimensions: 54.6\*13\*3mm

[Click here for PCS.26.A datasheet](#)

