# Redefining Randomness
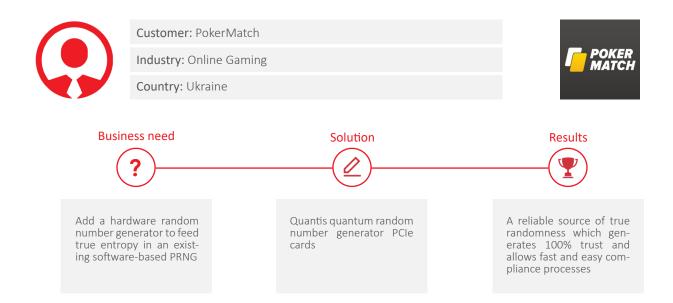# Use Case: Online Gaming

## Random Number Generation for Online Poker

### Quantis True Random Number Generator

**Customer:** PokerMatch

**Industry:** Online Gaming

**Country:** Ukraine

**Business need** — ?
Add a hardware random number generator to feed true entropy in an existing software-based PRNG

**Solution** — ✎
Quantis quantum random number generator PCIe cards

**Results** — 🏆
A reliable source of true randomness which generates 100% trust and allows fast and easy compliance processes

## Business need

PokerMatch is an online poker room which offers poker tournaments and a big variety of cash games. The company started in 2016 and since then has demonstrated the fast pace of growth of the Ukrainian online gaming market.

To achieve its business goals, an online poker company needs a flawless reputation. In this industry, random number generation is one of the most important components when it comes to having a good reputation. PokerMatch took a great responsibility in selecting the provider of its gaming application and therefore it chose a company called Connective Games to develop a state-of-the-art gaming platform. Out of all poker platforms available on the market, PokerMatch believed Connective Games to be the best option when it came to the quality of the product and the business processes that allow to gradually improve the software and remain flexible in order to react to global online poker trends and meet players' needs.

Connective Games was using a pseudo random number generator which was certified by GamingLabs. However, Poker-Match's players need the utmost assurance and reliability.

Even though pseudo random number generation is considered a viable and compliant solution for current gaming applications, it cannot match the quality of hardware-based RNGs, especially quantum random number generators, which guarantee true entropy.

## Solution

To boost their clients' trust in its platform, PokerMatch selected ID Quantique's Quantis QRNG modules for its poker servers. PokerMatch was particularly convinced by Quantis' provable randomness, quality and reliability, and ease of integration.

Quantum random number generators (QRNGs) have the advantage over conventional randomness sources of being intrinsically random, and therefore do not need to accumulate entropy to generate secure keys – every bit has what is termed "full entropy".

QRNGs are also invulnerable to environmental perturbations and allow live status verification. The operation of Quantis is continuously monitored and if a failure is detected the random bit stream is immediately disabled. IDQ's Quantis QRNG offers high quality entropy for use in highly secure crypto operations and solutions requiring proven and certified randomness.

## Results

In the future, PokerMatch plans to develop new business opportunities in new geographies. The company understands that the addition of Quantis true random number generators on its servers will allow them to obtain key licenses required for operation in a much faster, easier and cheaper way.

PokerMatch has started using Quantis QRNG in 2018, and it has been working unfailingly since then.

*"Working with such a reputable company as ID Quantique and adding their Quantis QRNG as an additional source of true randomness to our poker servers has helped us to increase our customers' trust and will facilitate compliance processes to grow our business in the most efficient possible way.*

Mr. Ruslan Bangert
PokerMatch CEO

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