Quantum Random Number Generator

DESCRIPTION

The QRNG product uses random electron recombination and photodiode-hole to generate random numbers. Random phenomena in nature appear in the form of Gaussian function. Therefore, the raw QRNG data is Gaussian. Using post-processing operations, the data are processed to remove some correlation between them. Also, software is provided along with the product, which, in addition to receiving random numbers as desired, data related to number distribution and NIST tests are calculated and displayed for you. Since quantum noise is a white noise, it is necessary that its noise spectrum be smooth. The output data should not depend on the integrator. For this reason, the self-correlation of post-processing data should be lower than the standard correlation.

.

Feature

>>The inherent randomness of the production of 0 and 1
>> Production rate 0 and 1
>>Power consumption 480 milliwatts
>>Probability distribution method
>>Transfer speed of one mb per second
>>Probability distribution of uniform output numbers

.

TECHNICAL SPECIFICATION

Functional and Performance Characteristics	
Bit Rate	1 Mb/s
Input Voltage	12V
Interface	USB2

DRAWING