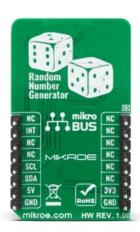


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## **RNG Click**





PID: MIKROE-4090

RNG Click is a random number generator (RNG) is a device that generates a sequence of numbers or symbols that cannot be reasonably predicted better than by a random chance. This Click board™ is true hardware random-number generator (HRNG), which generate genuinely random numbers. Random number generators have applications in gambling, statistical sampling, computer simulation, cryptography, completely randomized design, and various other areas.

RNG Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Mikroe produces entire development toolchains for all major microcontroller architectures. Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.





health and safety management system.



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## **Specifications**

Туре	Encryption
Applications	Gambling, statistical sampling, computer simulation, cryptography, completely randomized design, and various other areas.
On-board modules	RNG Click uses the noise generator analog circuitry, NC7S14M5X inverter, from Fairchild Semiconductor and the ADS1115 - 16BIT sigma-delta ADC, from Texas Instruments
Key Features	Random number generator from the analogue signal input. Range of $+18V$ power supply for the number generator range.
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,5V

## **Resources**

<u>mikroBUS™</u>

**mikroSDK** 

Click board™ Catalog

Click Boards™

## **Downloads**

RNG click example on Libstock

RNG click 2D and 3D files

TPS61040 datasheet

ADS1113 datasheet

**RNG click schematic** 

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