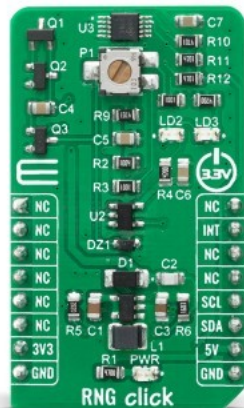


## RNG Click



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.



ISO 27001: 2013 certification of informational security management system.  
ISO 14001: 2015 certification of environmental management system.  
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## Specifications

|                  |   |
|------------------|---|
| Type             | 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

[mikroBUS™](#)

[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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