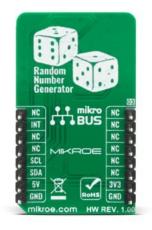


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# RNG Click





#### 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<sup>™</sup> 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<sup>™</sup> comes as a fully tested product, ready to be used on a system equipped with the mikroBUS<sup>™</sup> 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).



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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>™

<u>mikroSDK</u>

Click board<sup>™</sup> Catalog

Click Boards<sup>™</sup>

### Downloads

RNG click example on Libstock

RNG click 2D and 3D files

TPS61040 datasheet

ADS1113 datasheet

**RNG click schematic** 

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