AN To PWM Click

PID: MIKROE-4060

AN to PWM Click is a device that converts the value of the input analog signal with virtually any wave shape to a fixed frequency PWM voltage output, with a duty cycle proportional to the input voltage. It has a linear response, and by applying a signal with the voltage between -2.5V to +2.5V on its input, the Click board™ will generate a pulse width modulated (PWM) output voltage, with duty cycle ranging from 0% to 100%. AN to PWM click features very good linearity, covers a positive and negative input voltage range and it has good temperature stability. These features allow this device to be used in various voltage to frequency applications, such as AD conversion, inspection, test and measurement equipment, while it can also be used as the variable clock signal generator.

AN to PWM Click board™ 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.

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Specifications

Type	Measurements
Applications	AD conversion, inspection, test and measurement equipment, while it can also be used as the variable clock signal generator.
On-board modules	OPA2365 – Dual 50MHz, Low-Noise, Single-Supply Rail-to-Rail Operational Amplifier; TLV3201 - 40-ns, microPOWER, push-pull output comparator, both from Texas Instruments.
Key Features	Very good linearity, covers a positive and negative input voltage range and it has good temperature stability
Interface	GPIO
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

TLV3201 datasheet

OPA365 datasheet

AN To PWM click 2D and 3D files

AN To PWM click schematic

AN To PWM click example on Libstock

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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