

TDC Click



PID: MIKROE-4770

TDC Click is a compact add-on board that recognizes events and provides a digital representation of the time they occurred. This board features the TDC7200, a time-to-digital converter from Texas Instruments. The Time to Digital Converter (TDC) performs the function of a stopwatch and measures the elapsed time (time-of-flight or TOF) between a START pulse and up to five STOP pulses. The ability to measure from START to multiple STOPs gives users the flexibility to select which STOP pulse yields the best echo performance. This Click board™ is suitable for time-of-flight and flow meter applications where zero and low flow measurements require high accuracy.

TDC 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	Clock generator
Applications	Can be used for time-of-flight and flow meter applications where zero and low flow measurements require high accuracy
On-board modules	TDC7200 - time-to-digital converter for time-of-flight (ToF) applications for LIDAR and ultrasonic from Texas Instruments
Key Features	Low power consumption, Autonomous Multi-Cycle Averaging mode, SPI interface for configuration and register access, supports up to 5 STOP signals, internal self-calibrated time base which compensates for drift over time and temperature, and more
Interface	SPI
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[TDC click example on Libstock](#)

[TDC click 2D and 3D files](#)

[TDC7200 datasheet](#)

[TDC click schematic](#)

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