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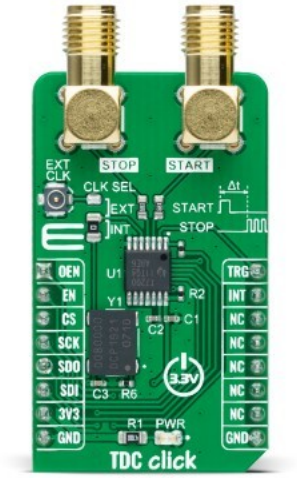
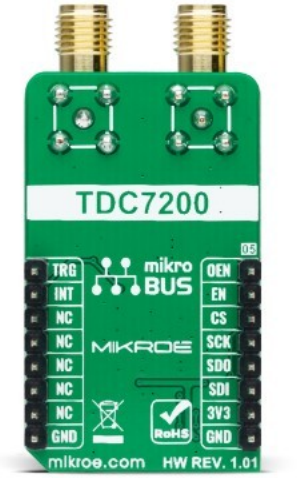
TDC Click





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.

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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
ClickID	No
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