

TDC 2 Click



PID: MIKROE-5570

TDC 2 Click is a compact add-on board that recognizes events and provides a digital representation of the time they occurred. This board features [ScioSense's AS6500](#), a four-channel time-to-digital converter (TDC) frontend with high measurement performance and high data throughput. The AS6500 is characterized by simple data post-processing thanks to calibrated results (calculates calibrated stop measurements referenced to the applied reference clock). It uses the SPI serial interface to read data and configure the frontend. High configuration flexibility and immense measurement range make this Click board™ suitable for many applications, from portable handheld laser range equipment to ambitious time-of-flight measurements of high performance.

TDC 2 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 general-purpose laser distance measurement in 1D, 2D, and 3D, speed control, object recognition, time-of-flight spectroscopy, and more
On-board modules	AS6500 - time-to-digital converter from ScioSense
Key Features	Simple data post-processing, high measurement performance, SPI serial interface, high data throughput, high configuration flexibility, unlimited measurement range, high resolution, 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 2 click example on Libstock](#)

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

[AS6500 datasheet](#)

[TDC 2 click schematic](#)

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