

Time-saving embedded tools

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TFmini Click





PID: MIKROE-4974

TFmini Click is an adapter Click board[™] used to interface a compatible ToF (Time of Flight) LiDAR sensor with the host MCU. This board features one four positions 1.25mm connector suitable for a TFmini LiDAR module (TFmini Plus and TFmini-S) specially made to measure an object's distance. Depending on the used LiDAR module, it is possible to achieve different measurement ranges and the use of a different serial interface, such as the UART or I2C. This Click board[™] is suitable for various industrial environments like pedestrian detection, vehicle testing, and altitude.

TFmini Click is supported by a <u>mikroSDK</u> compliant library, which includes functions that simplify software development. This <u>Click board</u>TM comes as a fully tested product, ready to be used on a system equipped with the <u>mikroBUS</u>TM 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	Adapter, Optical
Applications	Can be used for various industrial environments like pedestrian detection, vehicle testing, and altitude
On-board modules	TFmini Click is an adapter Click board [™] that simplifies the interface of the TFmini LiDAR module with the host MCU
Key Features	Low power consumption, high performance and accuracy, allowing measuring the distance to an object, configurable interface, suitable for both mikroBUS [™] power rails, and more
Interface	I2C,UART
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

<u>mikroBUS</u>™

<u>mikroSDK</u>

Click board[™] Catalog

Click boards[™]

Downloads

TFmini click example on Libstock

TFmini click schematic

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