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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 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	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

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

TFmini click example on Libstock

TFmini click schematic