

Inclinometer Click



PID: MIKROE-4753

Inclinometer Click is a compact add-on board that offers best-in-class characteristics for inclination measurements. This board features the SCL3300, a high-performance inclinometer sensor component from Murata. The SCL3300 is a three-axis inclinometer sensor designed and manufactured for high stability, reliability, and quality requirements with angle output based on Murata's proven capacitive 3D-MEMS technology. Signal processing is performed in a mixed-signal ASIC with a flexible SPI digital interface. This Click board™ is suitable for applications demanding high stability with demanding environmental requirements such as tilt sensing, machine control, inertial measurement units, positioning and guidance systems, and many more.

Inclinometer 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	Motion
Applications	Can be used for applications demanding high stability with demanding environmental requirements such as tilt sensing, machine control, inertial measurement units, positioning and guidance systems, and many more
On-board modules	SCL3300 - high-performance best-in-class inclinometer sensor component from Murata
Key Features	Low power consumption, 3-axis inclinometer, selectable measurement modes, ultra-low noise density, excellent offset stability, high accuracy, and more
Interface	SPI
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

[SCL3300 datasheet](#)

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

[Inclinometer click schematic](#)

[TXB0106 datasheet](#)

[Inclinometer click example on Libstock](#)

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