Accel 25 Click
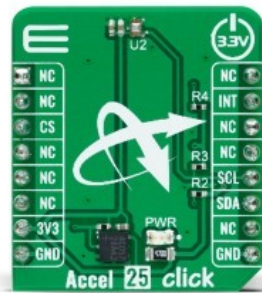

PID: MIKROE-5602

Accel 25 Click is a compact add-on board that contains an acceleration sensor. This board features the MXC4005XC, a 12-bit three-axis thermal accelerometer from MEMSIC. It allows selectable full-scale acceleration measurements of ±2g, ±4g, or ±8g in three axes with a compatible I2C serial interface with 400KHz fast mode operation. Alongside low offset and temperature signal with high accuracy, the MXC6655XA also detects six orientation positions, X/Y shake, and shake directions with an appropriate interrupt signal for these states. This Click board™ is suitable for various information appliances, consumer electronics, household safety applications, and more.

Accel 25 Click is 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.

Specifications

Type	Motion
Applications	Can be used for a wide range of information appliances, consumer electronics, household safety applications, and more
On-board modules	MXC4005XC - digital triaxial acceleration from MEMSIC
Key Features	Low power consumption, high performance and resolution, MEMS sensor with on-chip signal processing, no moving parts, 12-bit signal output for X, Y and Z axes, 6-position orientation detection, shake detection, I2C interface, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Accel 25 click example on Libstock

Accel 25 click 2D and 3D files

MXC4005XC datasheet

Accel 25 click schematic