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Accel 24 Click

www.mikroe.com





PID: MIKROE-5336

Accel 24 Click is a compact add-on board that contains an acceleration sensor. This board features the $\underline{\mathsf{MXC6655XA}}$, a 12-bit three-axis accelerometer from $\underline{\mathsf{MEMSIC}}$. It allows selectable full-scale acceleration measurements in ranges of $\pm 2\mathsf{g}$, $\pm 4\mathsf{g}$, or $\pm 8\mathsf{g}$ 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 $^{\mathsf{m}}$ is suitable for a wide range of information appliances, consumer electronics, household safety applications, and many more.

Accel 24 Click is supported by a $\frac{\text{mikroSDK}}{\text{compliant library}}$, which includes functions that simplify software development. This $\frac{\text{Click board}^{\intercal}}{\text{comes}}$ comes as a fully tested product, ready to be used on a system equipped with the $\frac{\text{mikroBUS}^{\intercal}}{\text{comes}}$ 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.





health and safety management system.



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Specifications

Туре	Motion
Applications	Can be used for a wide range of information appliances, consumer electronics, household safety applications, and more
On-board modules	MXC6655XA - 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 with interrupt, I2C interface, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

<u>mikroBUS™</u>

mikroSDK

Click board™ Catalog

Click Boards™

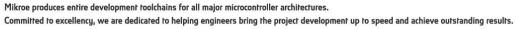
Downloads

Accel 24 click example on Libstock

MXC6655XA datasheet

Accel 24 click 2D and 3D files

Accel 24 click schematic







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