

MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com

6DOF IMU 6 Click





PID: MIKROE-4044

6DOF IMU 6 Click features a 6-axis MotionTracking device that combines a 3-axis gyroscope, a 3-axis accelerometer, and a Digital Motion Processor™ (DMP) labeled as ICM-20689. The ICM-20689 from company TDK InvenSense includes on-chip 16-bit ADCs, programmable digital filters, an embedded temperature sensor, and programmable interrupts. The gyroscope and accelerometer are full-scale range, user-programmable sensors with factory-calibrated initial sensitivity for reduced production-line calibration requirements.

6DOF IMU 6 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.





health and safety management system.



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Specifications

Туре	Acceleration, Gyroscope, Motion
Applications	Excellent choices for applications include mobile phones, tablets, drones, handset and portable gaming, motion-based game controllers, wearable sensors for health, fitness and sports and 3D remote controls for internet-connected DTVs and set-top boxes and 3D mice
On-board modules	ICM-20689, a 6-axis MotionTracking device that combines a 3-axis gyroscope, a 3-axis accelerometer, and a Digital Motion Processor™ (DMP), from TDK InvenSense
Key Features	Includes on-chip 16-bit ADCs, programmable digital filters, an embedded temperature sensor, and programmable interrupts.
Interface	I2C,SPI
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

6DOF IMU 6 click example on Libstock

ICM-20689 datasheet

6DOF IMU 6 click 2D and 3D files

6DOF IMU 6 click schematic

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