



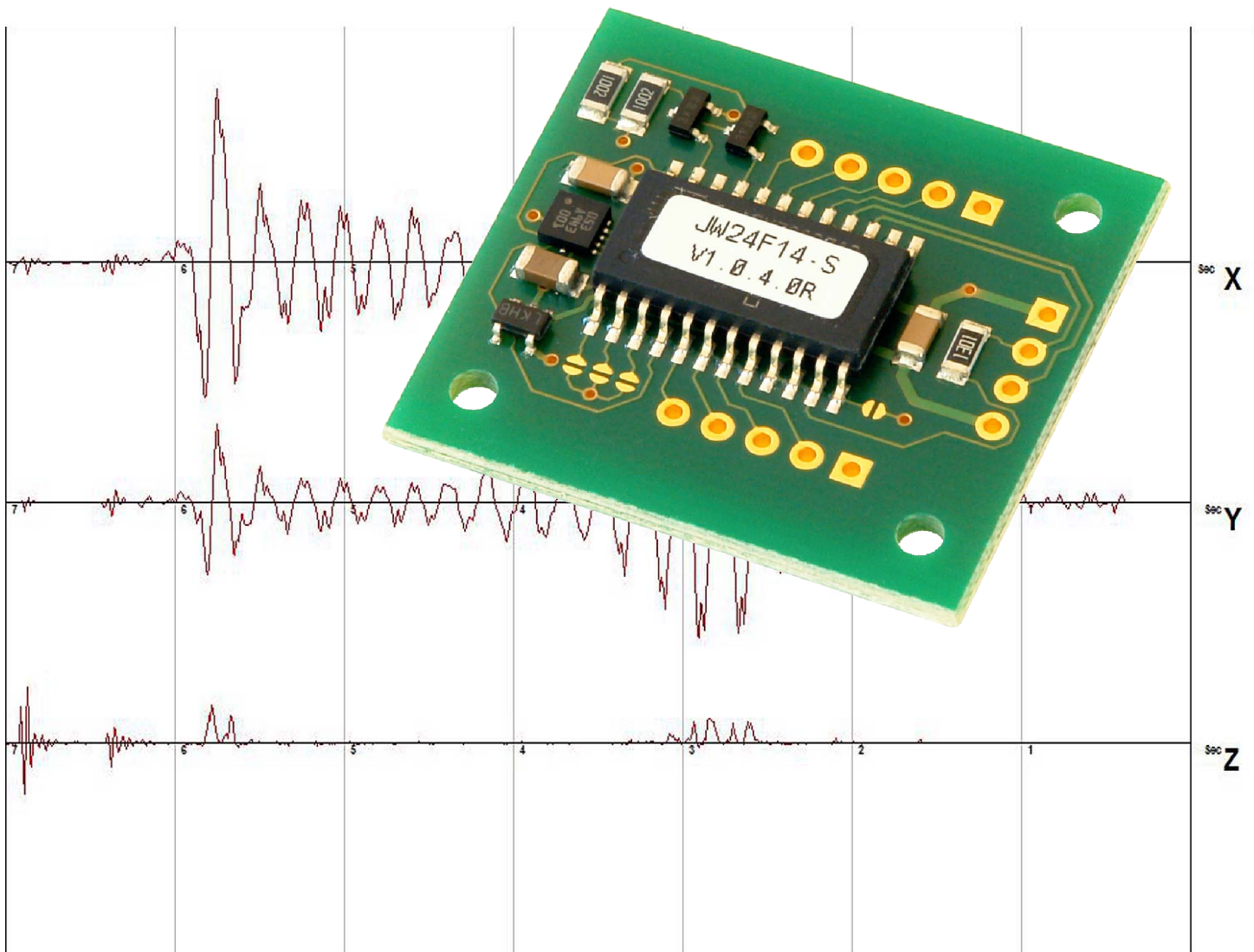
**Code Mercenaries** Hard- und Software GmbH

[www.codemerccs.com](http://www.codemerccs.com)

LED-Lighting • Keyboardcontroller • Mousecontroller • Joystickcontroller • I/O-Controller • rotary encoder controller

## Press Release

### JoyWarrior24F14 3 Axis Acceleration Sensor with USB Resolution up to $125\mu\text{g}$





## Press Release

The new JoyWarrior24F14 by Code Mercenaries sets a new price/performance benchmark for USB based acceleration sensors. At just Euro 19 per unit (at 100) JW24F14-MOD offers resolutions down to 125 $\mu$ g.

JoyWarrior24F14 modules are based on a MEMS sensor and measure with 14 bit resolution in the ranges  $\pm 1g$ ,  $\pm 1.5g$ ,  $\pm 2g$ ,  $\pm 3g$ ,  $\pm 4g$ ,  $\pm 8g$ , or  $\pm 16g$ , delivering 125 results per second.

Connection via USB allows easy use with any computer model. Since JoyWarrior24F14 identifies and works as a joystick accessing the data can be easily done via the operating systems joystick API without installing any specific drivers. In addition this allows to use the JoyWarrior24F14 in joystick applications.

Software for MacOS X and Windows contains a configuration tool to set the sensor parameters, a tilt angle measuring sample program, a calibration tool, and a simple data recorder.

Small size (30 x 33 x 5mm) and a low mass (<5g) allow installation of the sensor in many situations.

The modules are fit for acceleration, tilt, and low frequency vibration sensing, as well as for human input applications.

JW24F14-MOD is supported as the standard sensor by the Quake Catcher Network of the University of California (<http://qcn.stanford.edu>). The project allows computer users to participate in a network that measures seismic events. A kit containing a JW24F14-MOD, USB cable, and enclosure is available at Euro 45 excl. tax.

Modules and kits are available immediately.

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## Technical Data

- USB Low Speed interface (USB 1.1/2.0)
- X, Y, Z axis, 14 bit resolution each
- 125 values per second
- Range:  $\pm 1g$ ,  $\pm 1.5g$ ,  $\pm 2g$ ,  $\pm 3g$ ,  $\pm 4g$ ,  $\pm 8g$ ,  $\pm 16g$
- 8 digital inputs for buttons or other signals
- Identifies and works as a joystick
- Size: 30 x 33 x 5mm
- Weight: <5g
- Power supply via USB

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## JoyWarrior24F8

JoyWarrior24F8 continues to be available as an even cheaper alternative to the JoyWarrior24F14. JW24F8-MOD is now available at Euro 11.99 each excl. tax (at 100).

The JW24F8 based Quake Catcher Kit is now available at Euro 35 excl. tax.

JW24F14 based QCKIT2:





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## About us and our products

Code Mercenaries is a supplier for the industrial input device and peripheral manufacturers since 1998.

The keyboard and combined keyboard/mouse controller family KeyWarrior, and the mouse controller family MouseWarrior serve as basis for a large number of industrial input devices. A small but vital customer base are the manufacturers of products for the disability market and other speciality input devices.

The joystick controller family "JoyWarrior" serves a broad range of customers from industrial machine/vision control, professional and semiprofessional simulator control, to hobby and model building. A good option for front panel design are the joystick/mouse hybrid controllers MW24J8 and MW24H8 which are switch selectable to work as a mouse or joystick allowing both cursor control and data input via a joystick.

JoyWarrior24F8 is a low cost three axis acceleration sensor. With its small size and simple connection via a USB interface it opens a lot of new application options. The MouseWarrior24F8 variant of this sensor is a mouse replacement that needs no surface for operation.

Applications for the IO-Warrior universal USB I/O controllers are very diverse. Basically only the number of pins and the data rate limits the use of IO-Warrior. It is used in laboratory setups, test equipment as well as in hobby projects or full scale device production either as the core of a device or "just" the interface to USB. IO-Warrior chips control robots and telescopes, do quality control on production lines, take measurements in labs, control switches and displays in front panels or simulator cockpits, or work as the USB interface in many kinds of products.

SpinWarrior is a family of rotary encoder controllers with USB interface. Various models allow from 3 to 6 encoders to be connected to the USB and are suitable for motion control, measurement, or human interfacing applications.

Our philosophy is to provide complete solutions that allow our customers to concentrate on their own strength in developing their end products. The necessary know how for controlling interfaces like USB or PS/2 is encapsulated in our chips.

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