



Code Mercenaries Hard- und Software GmbH

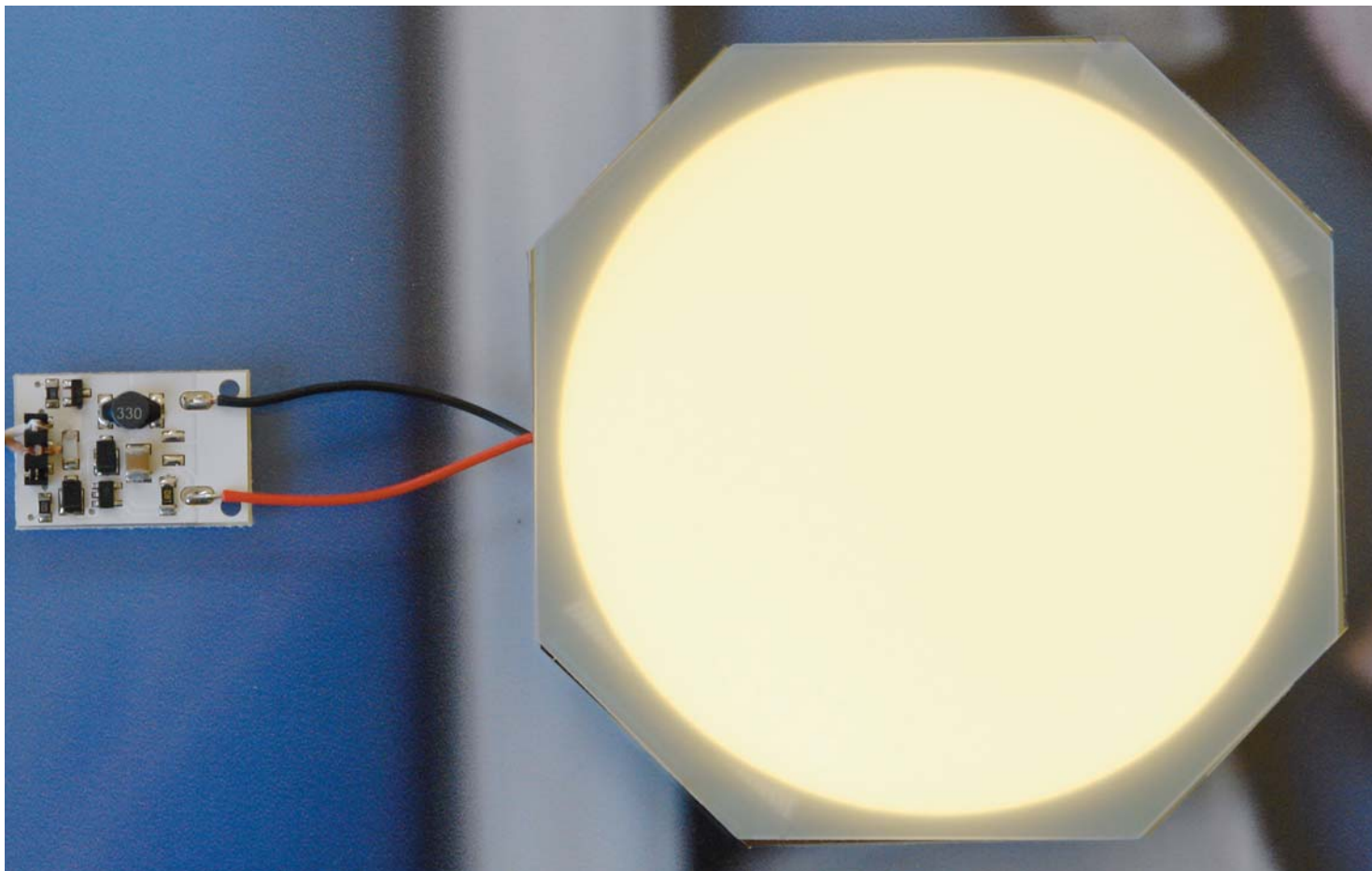
www.codemerchs.com

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

Press Release

Driver for LED and OLED

Demo at Light+Building 2010 with first commercially available OLED*



* OREBOS by OSRAM

**Light+Building 2010
Hall 4.0 - E44**



Press Release

Code Mercenaries introduces a new constant current step down driver for high brightness LEDs and OLEDs at the Light+Building 2010.

LED-Warrior05 is optimized for the most commonly used current range for driving LEDs and OLEDs combining high efficiency, long life and compact size.

Various current values up to 500 mA are available, including the very popular 350 mA as well as 100 mA and 150 mA which are relevant for OLED.

1 to 7 white LEDs can be driven, depending on the available input voltage. Due to the switch mode technology of LED-Warrior05 large differences between input voltage and forward voltage of the LEDs are not critical for system efficiency.

A PWM input allows to control the LEDs brightness or switch them off completely. Input voltages ranging from 7 V to 30 V can be used. The input is protected against wrong polarity and with a fuse. The cable connection on the input is in crimp technology. On the output connection options are crimp, plug or soldering.

A predominantly white design allows mounting the LED-Warrior05 visibly.

For easy installation LED-Warrior05 has an adhesive thermal pad on its lower side.

OEM versions and custom current ratings are available.

Among other applications the LED-Warrior05 will make it debut at Light+Building 2010 driving one of the first commercially available OLEDs: OREBOS by OSRAM.

Other applications on display at Light+Building 2010 will be LED-Warrior05 driving linear LED lights and three LED-Warrior05 driving the three LED strings of a Cree MPL.

Code Mercenaries Hard- und Software GmbH

Karl-Marx-Str. 147a
12529 Schönefeld
OT Großziethen
Germany
Tel: +49-3379-20 50 9 20
Fax: +49-3379-20 50 9 30
Web: www.codemerchs.com
Mail: sales@codemerchs.com

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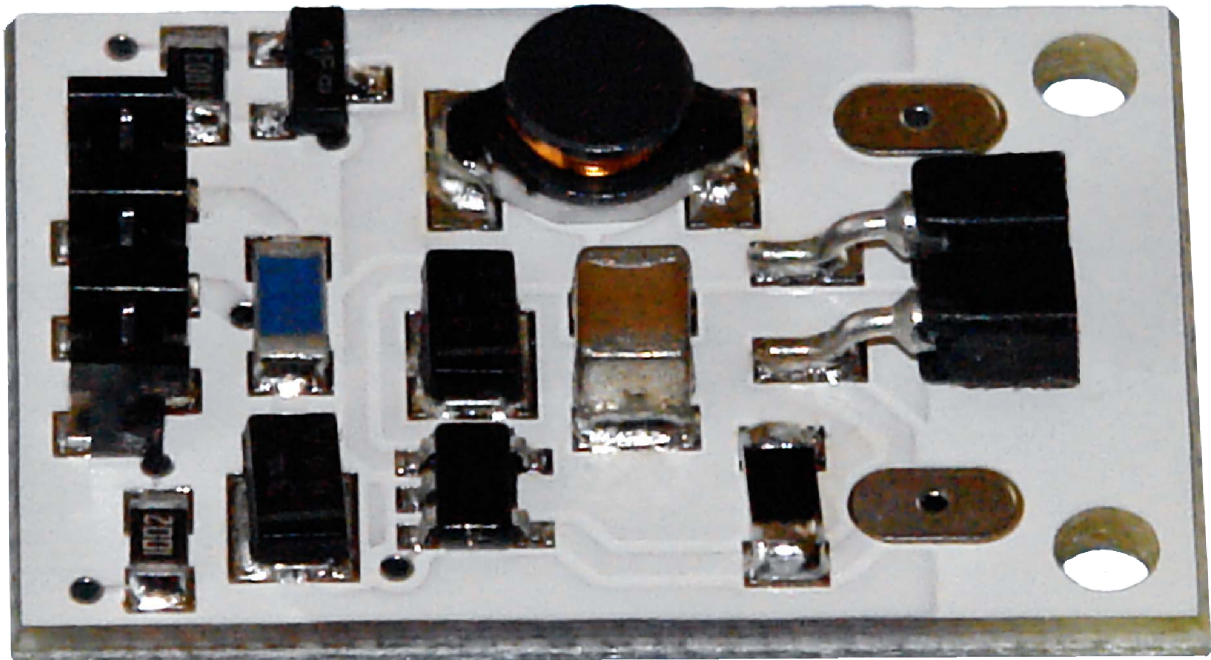


Technical Data

- Input Voltage: 7...30 V
- Maximum Output Power: 12 W
- Maximum LED Current: 500 mA
- PWM input for dimming and disabling
- Efficiency: up to 94 %
- 1...7 white LEDs (depends on input voltage)
- Standby Current: 40 μ A typ.
- Input protected against wrong polarity
- Input protected by fuse
- Adhesive thermal pad for mounting
- Input connection by crimp connector
- Output connection crimp, plug or soldering

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About us and our products

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

In 2008 Code Mercenaries started to develop and manufacture products for LED lighting applications. For the lighting products we apply our product philosophy to provide solutions for certain technical problems to allow our customers to concentrate on their own strength in developing their end products.

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.

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