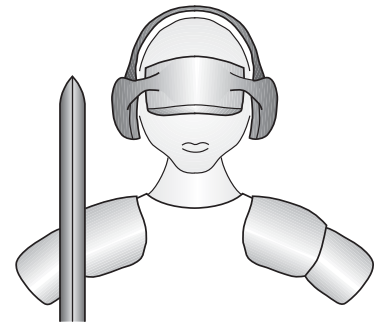


KeyWarrior28EVAL



Code Mercenaries

Evaluation Board for KeyWarrior28

1. Features

KeyWarrior28EVAL is the evaluation board for the KeyWarrior28 chip.

It comes as a ready to run keyboard PCB with space for up to 4 x 5 keys of the popular MX style. The three lock LEDs and three additional keys can be connected to the board too.

Keys, USB cable, and LEDs are not included.

2. Using the KW28EVAL

KW28EVAL comes already assembled with all the SMD parts. A USB cable must be soldered to the board and MX style keys and LEDs added as required.

2.1 Keys

The KW28EVAL is designed for the popular MX style keys. Make sure to use the five pin type, which has two electrical contacts plus three centering pins for perfect orientation.

The keys are placed on the PCB side that has the SMD components.

2.2 LEDs

Connections and series resistors for the Caps, Num, Scroll LEDs are on the board. Just solder the LEDs to the respective positions on the upper left corner of the board. The cathode ends are marked by square solder pads.

2.3 Key functions

KeyWarrior28 is fully programmable. It comes with a factory pre set layout that can be overwritten. You can find the default layout in the KeyWarrior28 data sheet, chapter 6.1.

The key coordinates are marked on the board. The lower right corner is X0/Y0.

2.4. Programming KW28EVAL

To program KW28EVAL please download the KeyWarrior28Editor for Windows from our website. This tool allows you to set up key layouts and program them into the KeyWarrior28.

Be careful with the option to set a PIN code. KeyWarrior28 has a feature to protect the configuration against reading and overwriting. If you lose the PIN you have set you are stuck with the current configuration. There is no way to reset the PIN if you have lost it.

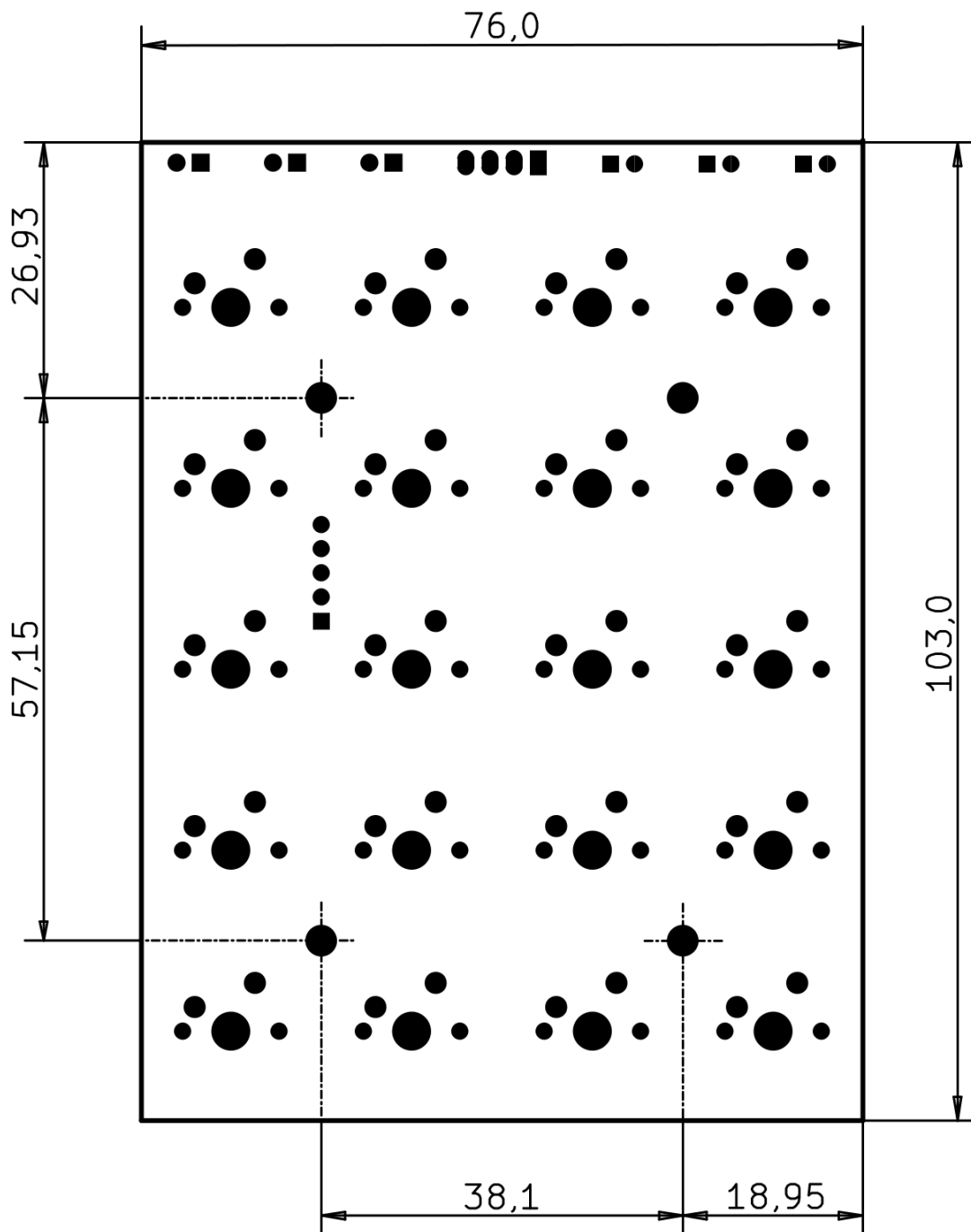
2.5 Case and key caps

3D printing data for a case and basic key caps is available for download off our website. The case can be easily modified to accommodate various key layouts.

2.6 Additional documentation

For more details refer to the KeyWarrior28 data sheet and the specification for KeyWarrior II scancode tables.

3. Mechanical dimensions



Top view
All dimensions in mm
Mounting holes: 3.2 mm diameter for M3 screws

4. Absolute maximum ratings

Storage Temperature	-65°C to +150°C
Ambient Temperature with power applied.....	-40°C to +85°C
Supply voltage on +5V relative to GND.....	-0.3 V to +6.5 V
DC input voltage into any pin	-0.3 V to +4 V
Maximum current into all ports.....	80 mA
Power Dissipation.....	max. 170 mW
Static discharge voltage.....	>2000 V
Latch-up current.....	>200 mA

These values must not be exceeded, or the device may be damaged.

5. RoHS compatibility

KW28EVAL conforms to the requirements that are necessary to use it in a RoHS compliant device.

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Code Mercenaries
Hard- und Software GmbH
Karl-Marx-Str. 147a
12529 Schönefeld
Germany
Tel: +49-3379-20509-20
Mail: support@codemerics.com
Web: www.codemerics.com

HRB 9868 CB
CEOs: Guido Körber, Christian Lucht