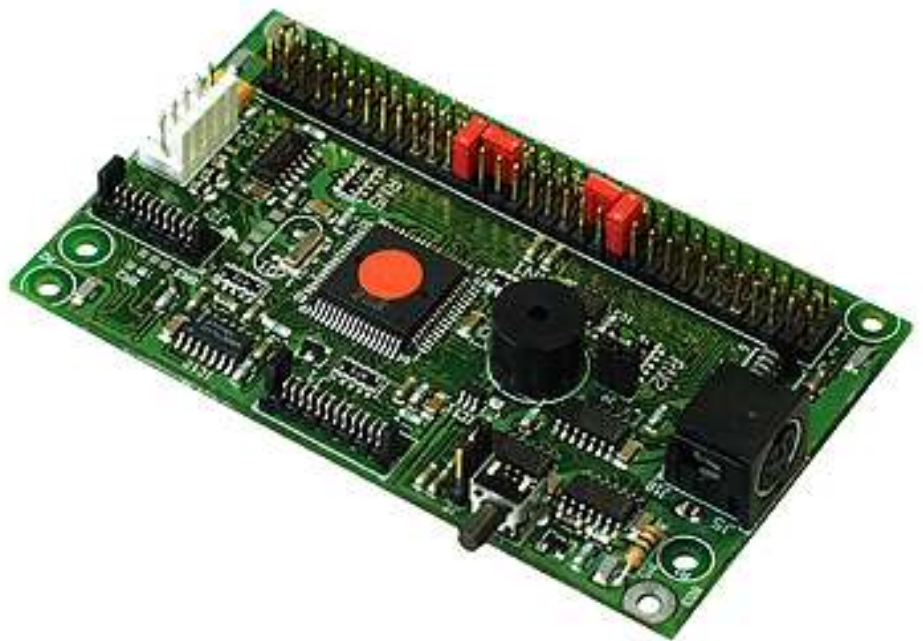


## **GCK-972 Keyboard Controller with Teach-In**

Freely programmable keyboard controller for a matrix up to 8x16 in 2 levels.



### **Description**

#### **General features:**

- Up to 128 keys in a matrix of 8x16
- "Block"-level enables the user to program a second level. The status of this level can be indicated by a LED that can be connected to the controller.
- Strings with up to 30 characters can be assigned to each key.
- Pauses can be programmed to allow successive masks to be controlled by the pressing of one key.
- Full N-Key rollover
- A key switch can be connected to the controller outside of the matrix.
- 4 LEDs for NUM-, CAPS-, SCROLL-Lock and BLOCK-level display can be connected.
- A buzzer can be connected to provide a certain tactile feedback
- The matrix keyboard is connected to the 99-pin interface of the controller, which allows many different matrix layouts
- A power saving mode is available on a special version of the controller
- Modern flash microcontrollers in SMD
- A good value for the money.

#### **Specialties of the PS/2 version:**

- The keycodes of scancodes 2 and 3 are generated to emulate standard PS/2 keyboards
- A keyboard wedge is available to connect an external keyboard.
- Teach-in-operation:  
Through the integrated keyboard wedge an external keyboard or a connected "master" controller can be used to program the slave controller. No software is needed.

#### **Specialties of the RS232 version:**

- The GCK-972 RS232 sends the assigned ASCII codes to the RS232 interface
- For the teach-in mode the controller can either be connected to a RS232 interface or to a programmed master controller.

### Technical data

Most keys that have a contact resistance of less than 200 ohms can be used.

The integrated beeper which offers audible feedback each time a key is [Pressed](#) can be deactivated by means of hardware.

Should the keys of your keyboard be decoupled by diodes this controller enables a full N-key rollover, so that the pressing of multiple keys becomes possible.

The power for the PS/2 version is supplied through the PS/2 port of the PC.

The RS232 version needs an external power supply.

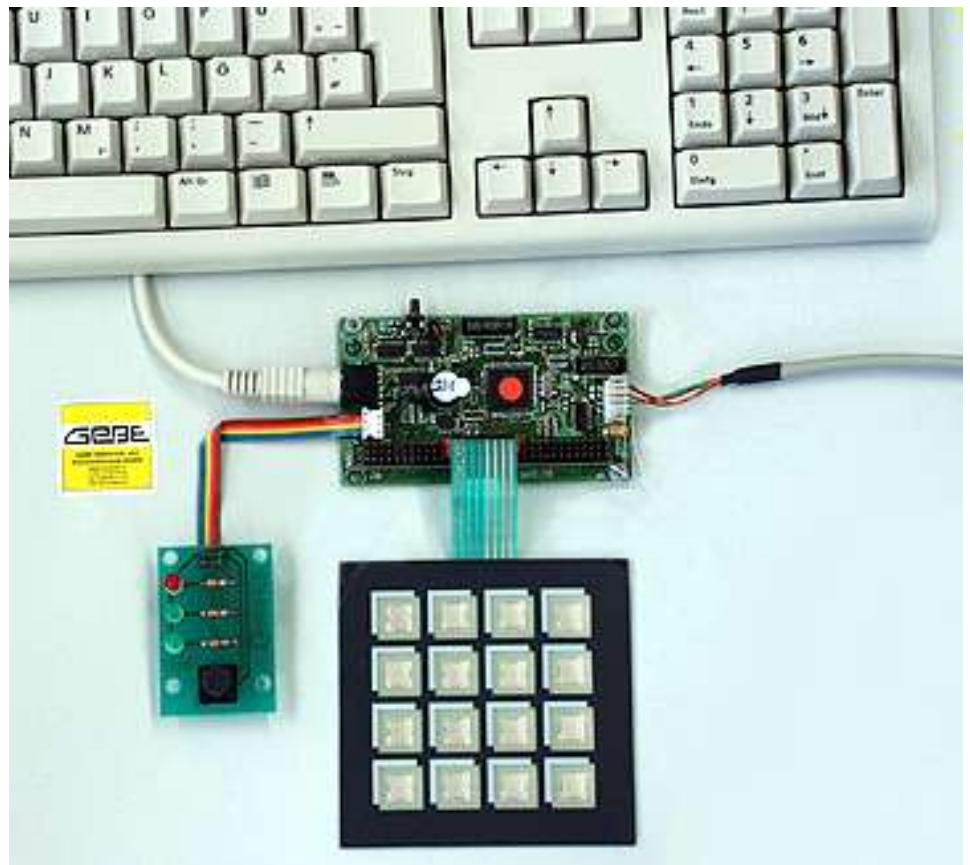
The controller has an especially low power consumption making it a perfect choice where batteries are the only available power source.

### GCK-972 EVAL

For universal use and for development GeBE offers the evaluation version of either the PS/2 or the RS232 versions including software.

- Interface RS232-serial-V.24
- Power-down mode with wake up feature
- SPI-interface for connecting external components such as displays.

### GCK-972-Starterkit



The starterkit offers everything that is needed to plug and play such as: EVAL-controller, all cables, software and the manual.

**Specification****Mechanical data**

Dimensions: 98 x 100 x 15,7 mm

Weight: 0,060 kg

**Keys**

Number of Keys: 128

**Electric Data**Interface: [PS/2](#), RS232, [USB](#)

Operating Voltage: 5 V

Operating Current: 12 mA

**Temperature**

Operating Temperature: from 0 °C to 70 °C

Storage Temperature: from -15 °C to 80 °C

**Order Information**

Standard versions:

The controllers are programmed with a standard program.

All starterkits contain a controller and all required cables and manuals

Customer-specific applications:

- Programming of the code tables as requested by the customer
- Special assemblies
- Integration of our controller into your electronic array.
- Other special versions including connections for external devices such as card-readers, barcode scanners, or pointing devices.

Order No.	Article	
CK1136	GCK-972-PS/2-STD	Keyboard-Controller with Teach-In
CK1138	GCK-972-RS232-STD	Keyboard-Controller with Teach-In
CK1142	GCK-972-PS/2-EVAL	Keyboard-Controller with Teach-In
CK1137	GCK-972-RS232-EVAL	Keyboard-Controller with Teach-In
KS2018	GCK-972-PS/2-START	and all other needed Hardware for beginning

KS2029	GCK-972-RS232-START	and all other needed Hardware for beginning
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### Accessories

Order No.	Article	
ZK1259	Bedienkonsole mit Anschlußkabel 	Cable 1, Control Console
ZK1263	GKA-080 Teach-In-Kabel	Cable 4, Teach-In RS232
ZK1261	GKA-390 RS232 Download- Kabel	Cable 5, Download RS232
ZK1262	GKA-396 Kabel externe Stromversorgung 	Cable 5, ext. Power Supply PS/2
ZK1260	GKA-397 	PC-Connection PS/2
ZK1344	GKA-397-4Meter 	PC-Connection PS/2

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