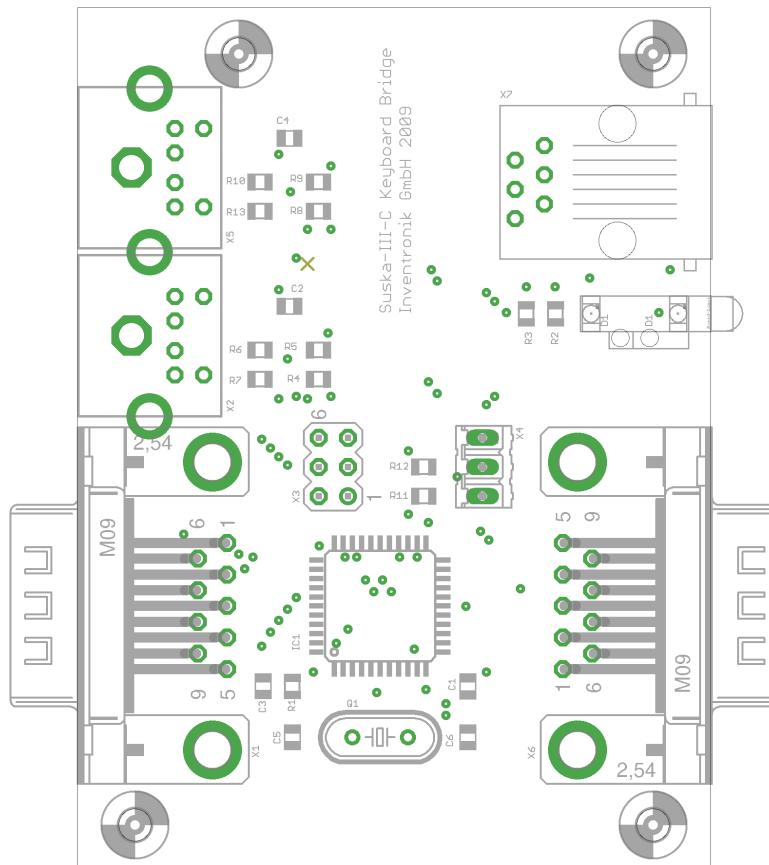# *Suska-III-C Keyboard Bridge* Operating Manual

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J. Carroll, W. Förster

Introduction

The Suska-III-C hardware is equipped with a FPGA (**F**ield **P**rogrammable **G**ate **A**rray) and is freely configurable. The hardware is compatible to the Suska IP core and provides Atari ST(E) functionality.

Once configured with this IP core and driven by a TOS or TOS compatible operating system, Suska-III-C is capable of operating nearly all peripheral devices made for the Atari machines. It is also possible to use a Mega ST or a Mega STE keyboard which can handle up to two joysticks. Unfortunately these type of keyboards are no longer available today, but Suska-III-C provides compatibility for PS/2 mice and keyboards through the connector ports on the Suska-III-C hardware.

Using PS/2 hardware through the connector ports on the Suska-III-C, there is no native joystick compatibility. The keyboard bridge remedies this situation and connects to the original Atari keyboard interface on the Suska-III-C hardware. The adapter is responsible for connecting a PS/2 keyboard, a PS/2 mouse and up to two joysticks. In this scenario, the PS/2 connectors on the Suska-III-C hardware remain unused.

Peripheral components, connected in this way, can be used without further requirements in conjunction with TOS or TOS compatible operating systems.

Operation

Putting the keyboard bridge into operation is very simple. On the one end it is connected using the modular cable (included) with the Suska-III-C's Atari keyboard connector X23 (on the right hand in the middle, see the Suska-III-C documentation for more information) and on the other end with the desired peripheral devices. The purple PS/2 connector is foreseen for the keyboard, the green one for the mouse. On the PS/2 side there is the connector for the joystick number 0 and on the opposite side there is the connector for the joystick number 1. Additionally there are two LEDs. The lower one indicates a mouse has been detected and the upper one the shift lock key of the keyboard. With this, all prerequisites are done and the peripherals can be operated without further action.

Contact

Inventronik GmbH, Finkenstraße 48, 70199 Stuttgart.
Internet: www.inventronik.de.
Email: info@inventronik.de