

Documentation keyboard/button project

The folder `doc/` contains this documentation, the schematic files (`schematic.sch` created with CADsoft Eagle and exported to `.png`), and a PDF file with the HID specification which contains the HID keycode table.

The folder **keyboard/** contains the main Arduino program. It has a main loop which reads input pins and writes them on the serial port to the custom keyboard firmware. One thing to note here: the `READMASK` constant defines a bitmap mask which defines which 5 input pins (numbers 2 to 7!!) to read. For the 2-button controller shield, set this value to 5 to only read pins 2 and 4; for the joystick+button shield, set this value to 31, to read all inputs from 2 up to 7.

The folder **keyboard-firmware/** contains the firmware for the Arduino UNO which allows it to act as a USB keyboard. It requires the [LUFA library](#) (version 110528). Source code was originally taken from [this page](#) and then adapted to work with a more recent LUFA.

Arjan Scherpenisse, august 4, 2011