NOTE: upcoming examples will demonstrate how to extend the matrix to up to 1024 buttons (each matrix uses the same DOUT shift register, but an own DIN shift register for capturing the button states)

220 Ohm resistors replaced by bridges!

NOTE: if a ready made hardware should be used where the cathodes of the diodes are connected together, then swap the column with the row lines and set SM_SWAP_CR to 1 (can be found in sm_*.inc)