MU30R-L Active Low
30 input Reprogrammable USB Keyboard Emulator

<u>Board and connections:</u>

USB CABLE
TYPE A MALE to
TYPE B MALE
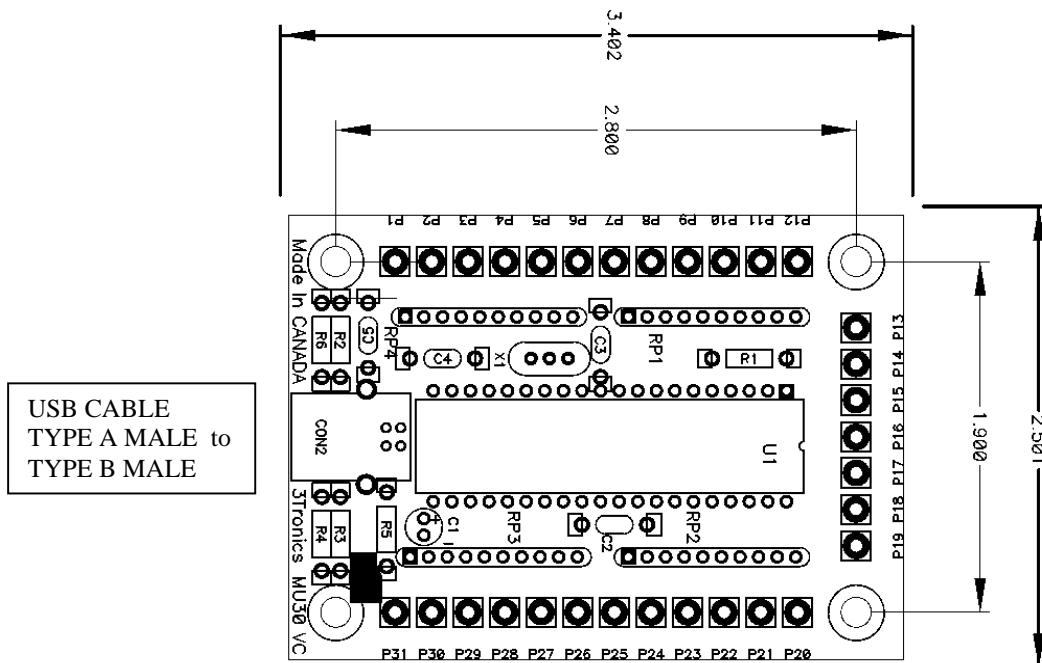
- The MAMI 30 can connect up to 22 switches and 2 joysticks (2 player)
- No ghosting or key blocking , all inputs are non multiplexed
- Supports 4 way or 8 way joysticks
- +5Volts operation. Power from computer USB connector
- Switch inputs are all active low to ground with 10K Pullup resistors to +5V.
- All keys can be reprogrammed with any editor and a PC

Switch circuit
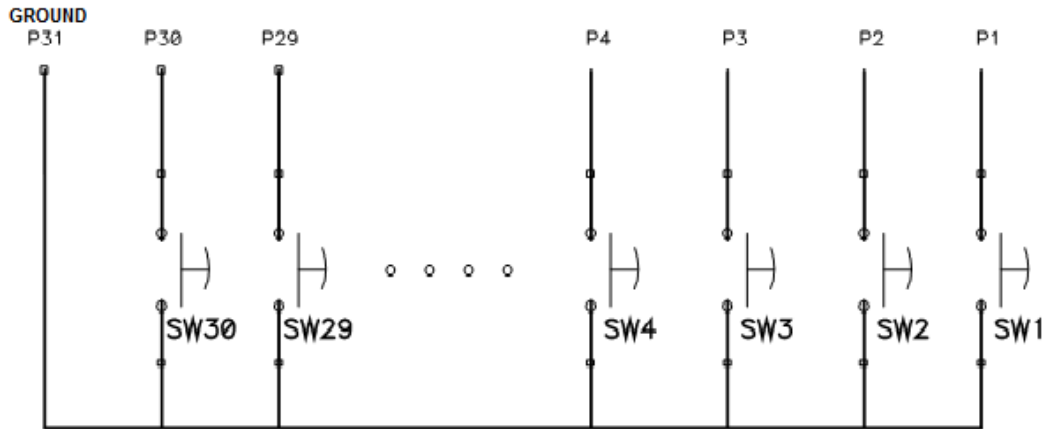
Default Mappings

| PLAYER1		Device	Key
P1	RIGHT	Joystick1	R arrow
P2	LEFT	Joystick1	L arrow
P2	UP	Joystick1	U arrow
P4	DOWN	Joystick1	D arrow
P5	SW1	Switch	L-ctrl
P6	SW2	Switch	L-alt
P7	SW3	Switch	space
P8	SW4	Switch	L-shift
P9	SW5	Switch	Z
P10	SW6	Switch	X
P11	SW7	Switch	C
P12	SW8	Switch	V
P13	SW9	Switch	C
P14	SW10	Switch	N
P15	RIGHT	Joystick2	S

PLAYER2		Device	Key
P16	LEFT	Joystick2	D
P17	UP	Joystick2	P
P18	DOWN	Joystick2	F
P19	SW1	Switch	A
P20	SW2	Switch	S
P21	SW3	Switch	Q
P22	SW4	Switch	W
CONTROL		**Device**	**Key**
P23	SW5	Switch	Esc
P24	SW6	Switch	Enter
P25	SW7	Switch	Tab
P26	SW8	Switch	OK
P27	COIN 1	Switch	5
P28	COIN 2	Switch	6
P29	START 1	Switch	1
P30	START 2	Switch	2

USB Cable required:

TYPE A MALE to TYPE B MALE

Switch Example:

CONNECT EACH
SWITCH OTHER
SIDE TO P1 -> P30

CONNECT ALL
GROUNDS
TOGETHER
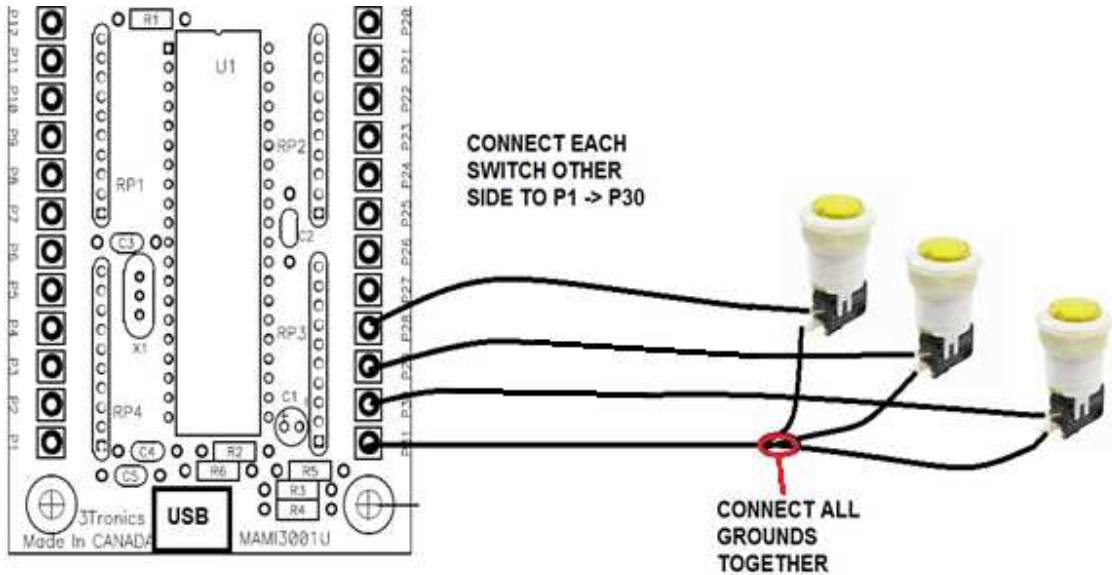
Hardware Remapping

Refer to document M30R-L PROGRAMMING INSTRUCTIONS.pdf
For instructions examples and procedure on how to reprogram keys.

Software Remapping:

To change the keymappings in MAME use TAB / Input General.

For more advanced remapping , http://www.autohotkey.com/ provides a
great tool.

Warning:

Be careful not to short out connections on bottom of board to ground.
Always place the board on a **non conducting** surface. Shorting the
connector pins to ground may blow a fuse on the motherboard supplying
+5Volts, it's a real pain to fix.

Support , questions or suggestions:

3Tronics Technical Services
3tronics@gmail.com