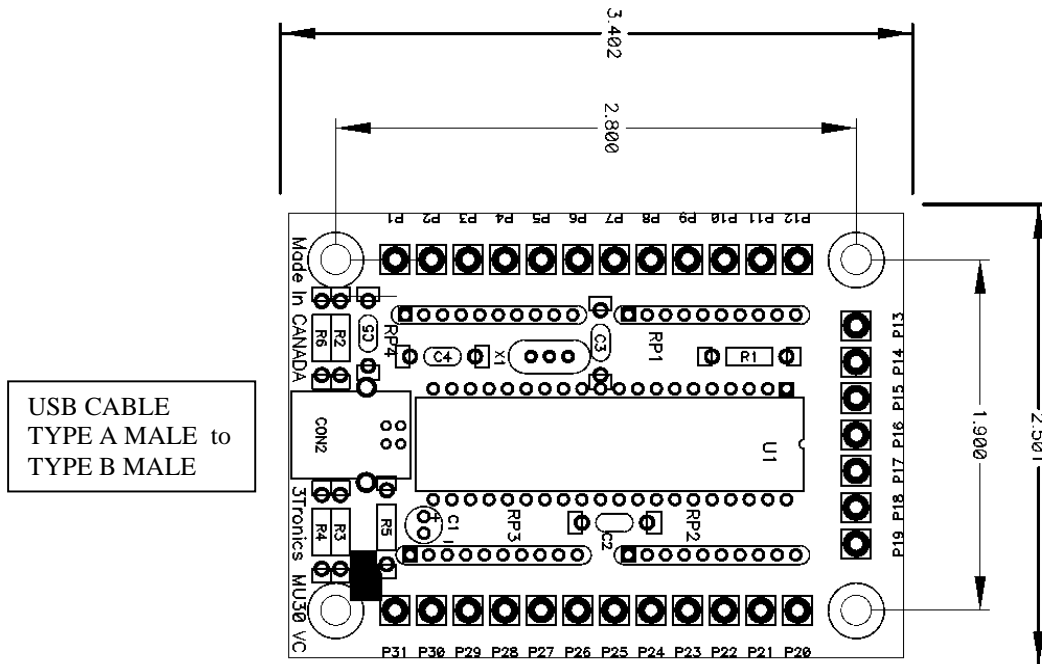


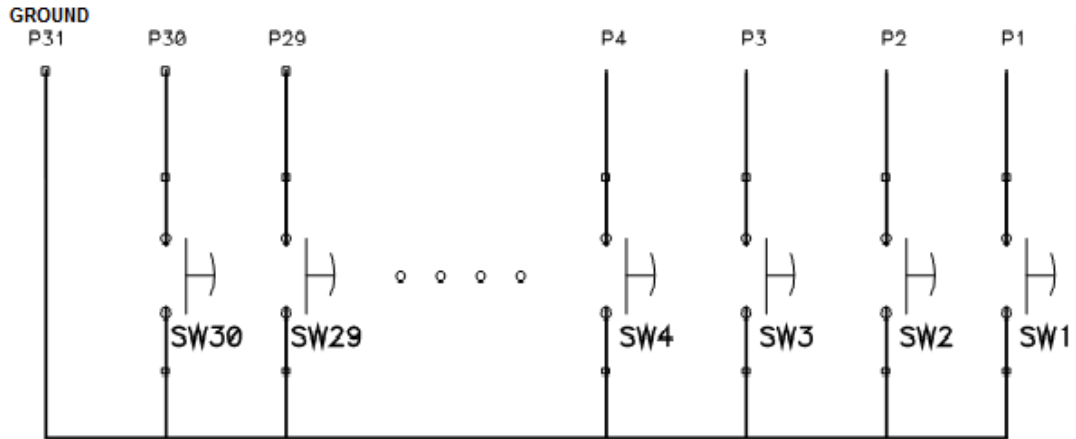
MU30-L1 Active Low 30 input USB Keyboard Emulator

Board and connections:



- 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
- Can use switches from HappControls
- +5Volts operation.Power from computer USB connector
- Switch inputs active low to ground

Switch circuit



Fixed Key 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	B
P14	SW10	Switch	N

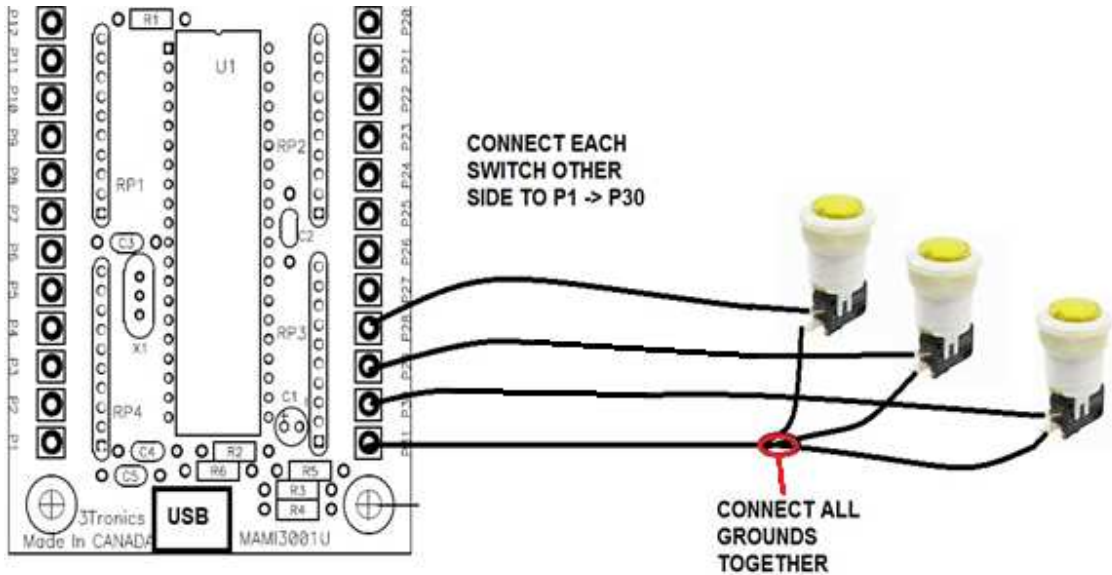
PLAYER2		Device	Key
P15	RIGHT	Joystick2	G
P16	LEFT	Joystick2	D
P17	UP	Joystick2	R
P18	DOWN	Joystick2	F
P19	SW1	Switch	A
P20	SW2	Switch	S
P21	SW3	Switch	Q
P22	SW4	Switch	W
CONTROL		Device	Key
P23	SW5	Switch	Esc
P24	SW6	Switch	Enter
P25	SW7	Switch	Tab
P26	SW8	Switch	OK
P27	COIN 1	Switch	5
P28	COIN 2	Switch	6
P29	START 1	Switch	1
P30	START 2	Switch	2

USB Cable required:

TYPE A MALE to TYPE B MALE



Switch Example:



Software Remapping:

MU30-L1 has fixed key mappings. 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