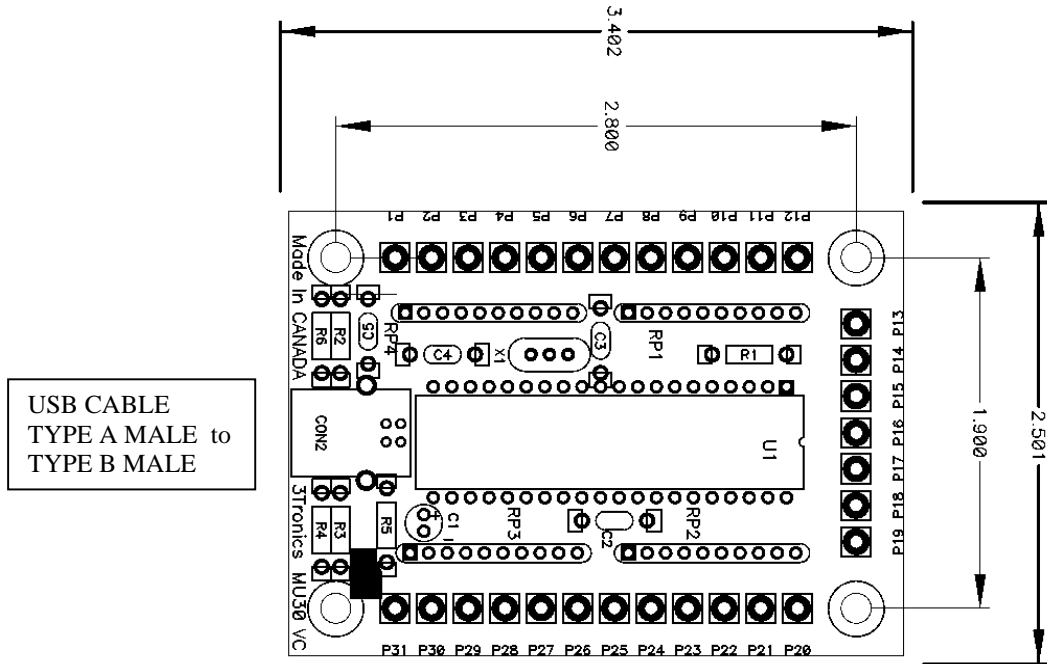


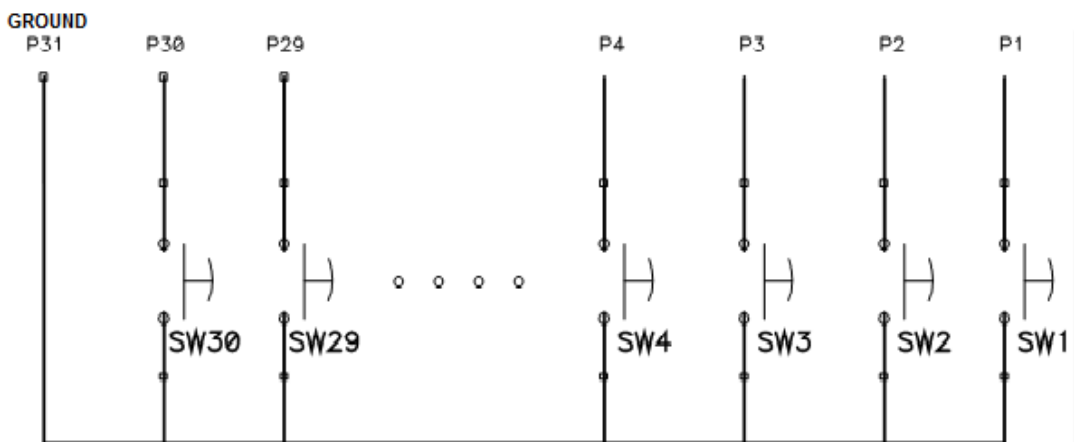
MACH3 MU30-M3 Active Low 30 input USB Keyboard Emulator

Board and connections:



P1 – P30 : 30 CMOS Active low switch inputs. 5V=off,0V=on (send scancode)
P31 : Common 0V (Ground) for switches.

Switch circuit



Fixed Key Mappings

P1	Alt R	Start
P2	Alt S	Stop
P2	Alt X	Zero X
P4	Alt Y	Zero Y
P5	Alt Z	Zero Z
P6	Alt J	Jog
P7	Alt N	Single
P8	Alt W	Reverse
P9	Alt B	spare
P10	Alt F	spare
P11	Ctrl V	spare
P12	Ctrl Q	spare
P13	Ctrl O	Goto 0
P14	Ctrl W	rewind
P15	Up arrow	+Y

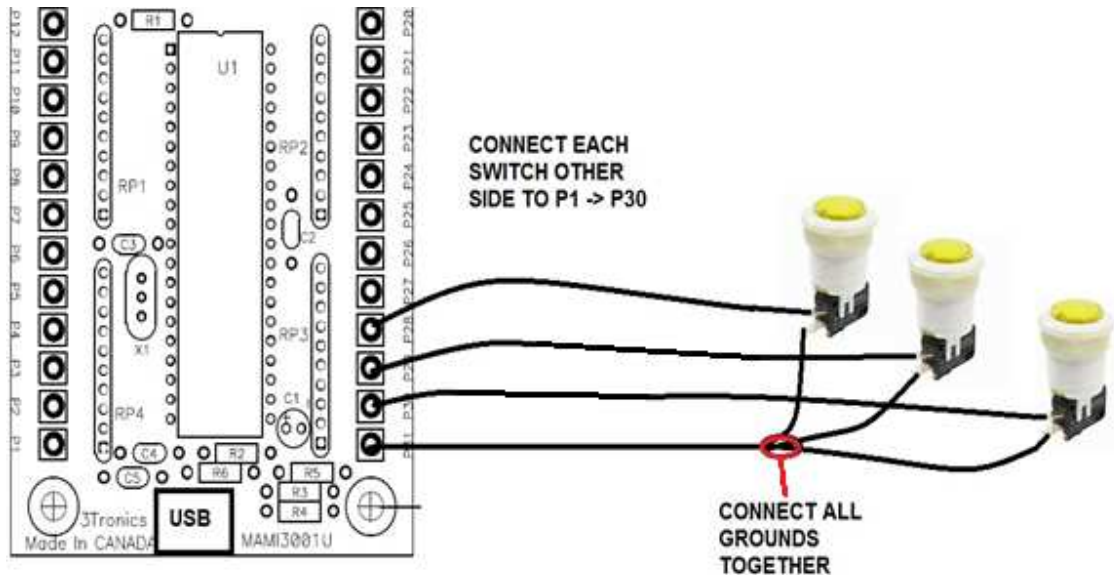
P16	Down arrow	-Y
P17	Left arrow	-X
P18	Right arrow	+X
P19	Page up	+Z
P20	Page Down	-Z
P21	Space	Feed Hold
P22	Tild	RESET
P23	F5	Spindle CW
P24	F10	Feed +
P25	F11	Feed -
P26	KB Plus	Spindle +
P27	KB Minus	Spindle -
P28	Enter	Esc
P29	Esc	1
P30	Tab	2

USB Cable required:

TYPE A MALE to TYPE B MALE



Switch Example:



Software Remapping:

For MACH3 you will need to remap the Zero x,y,z using Mach3ScreenDesigner available from below or here as a zip file or email me.

<http://www.machsupport.com/software/downloads-updates/screensets/>

For more advanced remapping for the computer in general , <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