Propeller Eurocard Touchburger 1

Group 1 - P0-P18 = address, P19 load, P20 clock

Group 2 P0-P16 - data, P16 ram /RD, P17 ram /WR, P18 display /WR, P19 display /CS, P20 clock

Clock pulse can be driven in either group 1 or group 2

Zigzag the connections as layout neater

Pinout numbers different but works out correct

ILI9325 touchscreen module
Remove the 3x2k resistors for the SD card on the touchscreen board and short out

Second display does not need SD card connected

SD card

SPI ports

Can only clock data in while outputs are HiZ
P22 H = outputs HiZ
ENC high only if P22 high and P8 high
Normal operation P22 is low
and therefore ENC is always low regardless of P8

Group change sequence
1) P8 L
2) P22 H
3) Change P0-P7
4) P8 H
5) P8 L
6) P22 L

Linear regulator pads TO220
Install either switching or linear regs

If installing prop plug leave out max3232 and associated components
As well as reset transistor and associated components

Autoroute with a grid of 10mil
Components on board with a grid of 0.025
Design rule check min track width 10mil
Design rule check min pad to via 40mil
Default eagle board size 6.25x3.9. Holes at 0.15, 6.1, 3.75

Weak pullups so inputs to HC gates not floating when switch groups