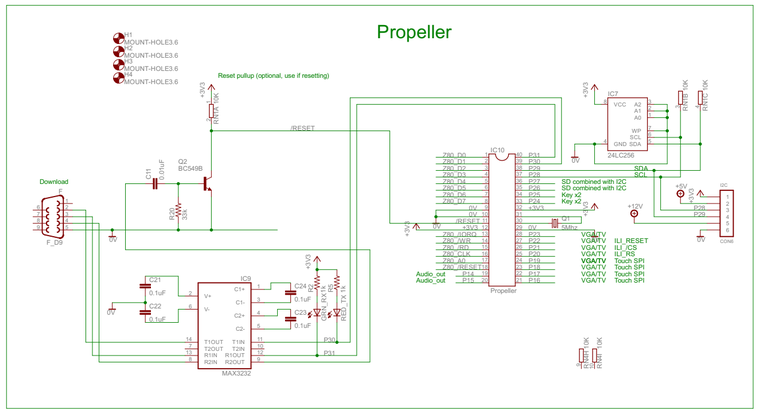
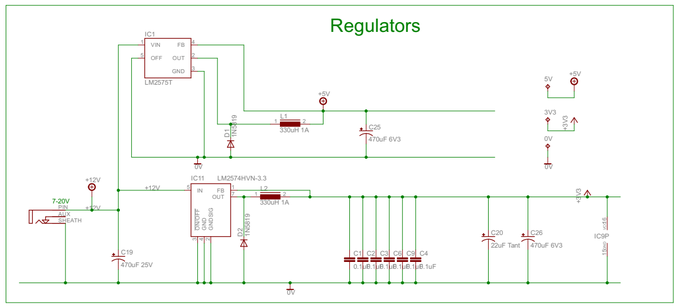
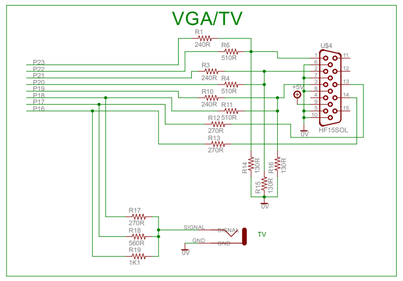
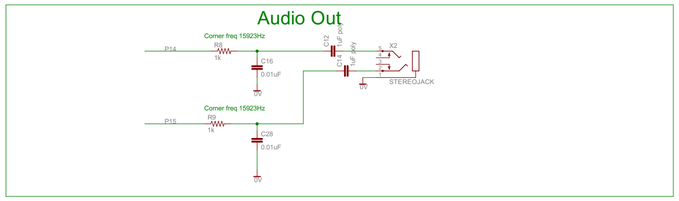
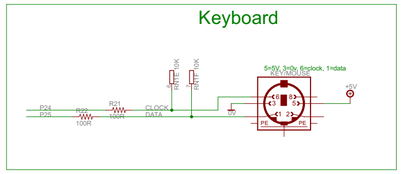
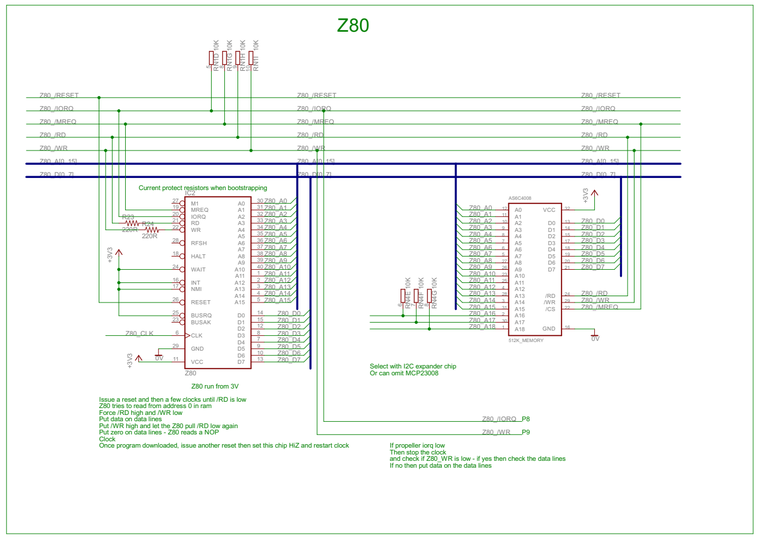

Propeller
Reset pullup (optional, use if resetting)
/RESET
Download
F_D9
Q2
BC549B
IC9
MAX3232
IC10
Propeller
IC7
24LC256
SDA combined with I2C
SD combined with I2C
Key x2
Key x2
VGA/TV ILI_RESET
VGA/TV ILI_CS
VGA/TV ILI_RS
VGA/TV Touch SPI
VGA/TV Touch SPI
VGA/TV Touch SPI
VGA/TV Touch SPI
Audio_out
Audio_out
CON6

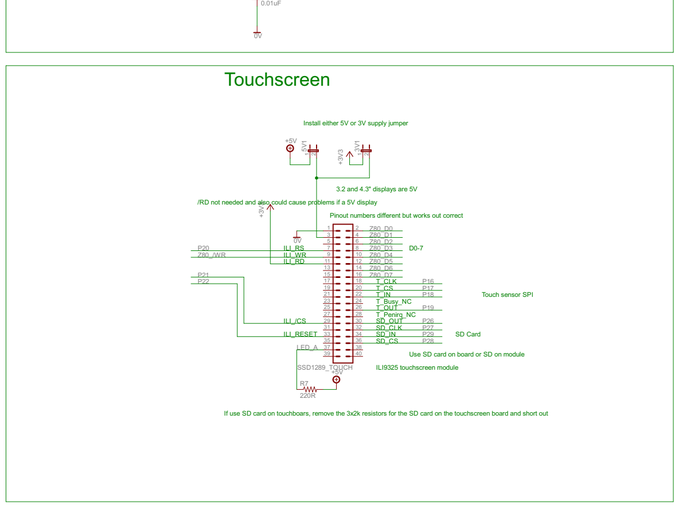

Regulators
IC1
LM2575T
IC11
LM2574HVN-3.3
7-20V
330uH 1A
330uH 1A
C19
470uF 25V
C25
470uF 6V3
C20
22uF Tant
C26
470uF 6V3
IC9P

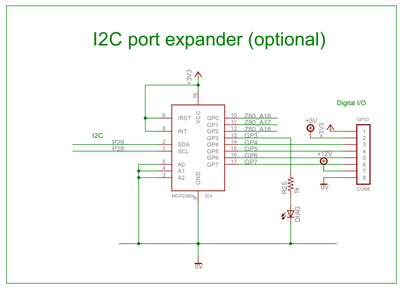

VGA/TV
HF15SOL
TV
SIGNAL
GND

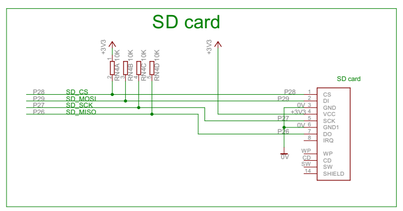

Audio Out
Corner freq 15923Hz
Corner freq 15923Hz
STEREOJACK


Keyboard
5v5V, 3v3V, Ringlock, 1ndata
CLOCK
DATA


Z80
Current protect resistors when bootstrapping
Z80 run from 3V
Issue a reset and then a few clocks until /RD is low
Z80 tries to read from address 0 in ram
Force /RD high and /WR low
Put data on data lines
Put /WR high and let the Z80 pull /RD low again
Put zero on data lines - Z80 reads a NOP
Clock
Once program downloaded, issue another reset then set this chip HiZ and restart clock
Select with I2C expander chip
Or can omit MCP23008
If propeller iorq low
Then stop the clock
and check if Z80_WR is low - if yes then check the data lines
If no then put data on the data lines


Touchscreen
Install either 5V or 3V supply jumper
3.2 and 4.3" displays are 5V
/RD not needed and also could cause problems if a 5V display
Pinout numbers different but works out correct
D0-7
Touch sensor SPI
SD Card
Use SD card on board or SD on module
ILI9325 touchscreen module
If use SD card on touchboars, remove the 3x2k resistors for the SD card on the touchscreen board and short out


I2C port expander (optional)
I2C
Digital I/O
MCP23008
CON8


SD card
SD card