

CPU, RAM, CS

cpu-base-ram-cs.sch

Video Interface

video-interface.sch

Pokey PIA Keyboard Mouse Joystick

pokey-pia-kbd-mouse-joy.sch

Pokey2 Audio

pokey2-audio.sch

SIO ROM XRAM CART/ECI

sio-rom-xram-cart-eci.sch

Power Video-Out Mini-PBI Misc

power-video-out-mini-pbi-misc.sch

Redrawn in KiCad by Ivo van Poorten  
Based on Michael St. Pierre's revision 1.1 2017-10-1

Sheet: /  
File: 1088XEL.sch

**Title: 1088XEL**

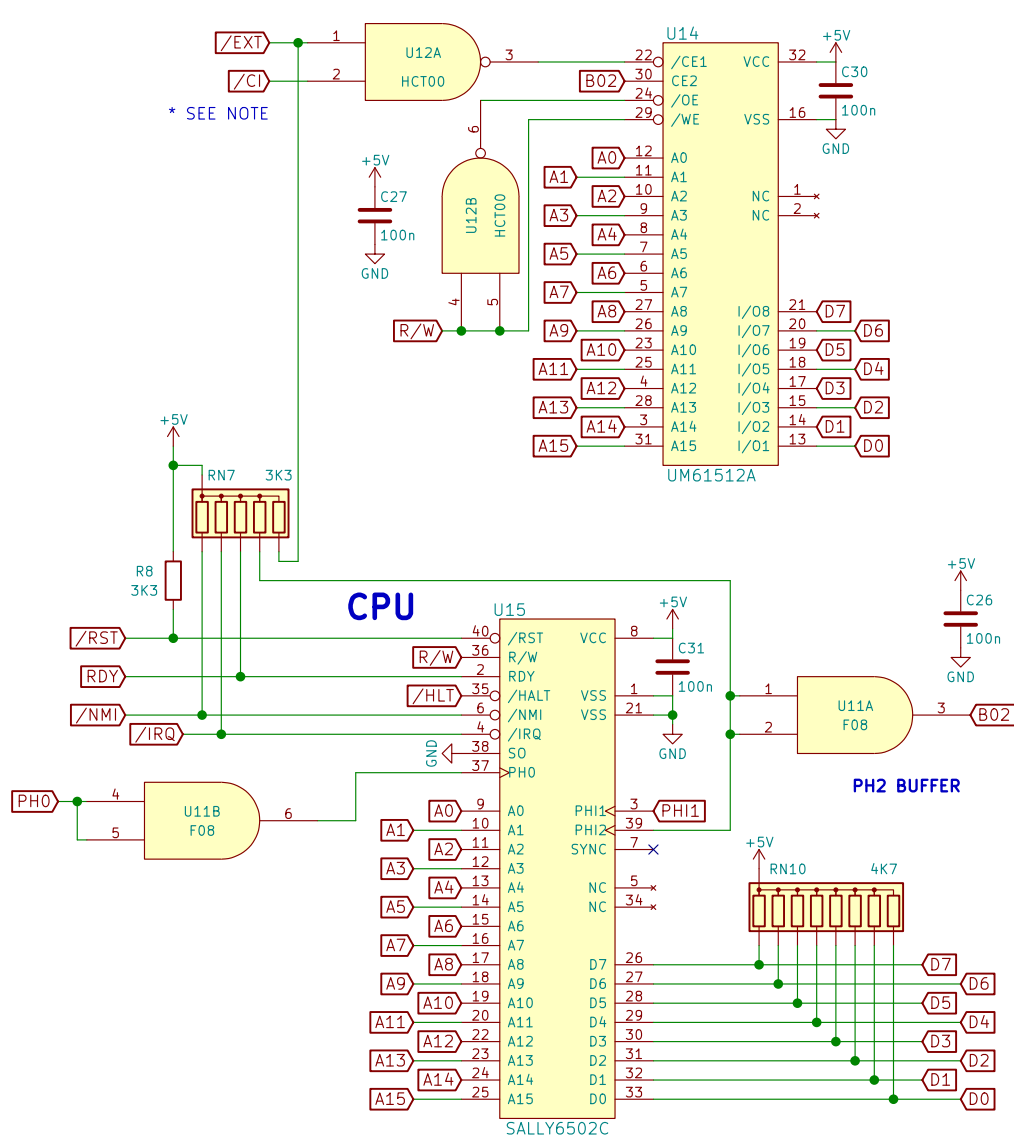
Size: A4 Date: 2017-11-09

KiCad E.D.A. kicad 4.0.5+dfsg1-4

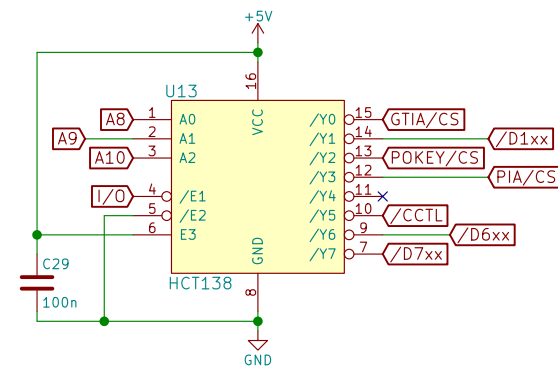
**Rev: A**

Id: 1/7

## 64kB BASE MEMORY



## CHIP SELECT DECODING



\* NOTE: /EXT = /EXTSEL, REQUEST BY EXTERNAL DEVICE (PBI) TO TURN OFF RAM ACCESS  
/CI = /CASINH, RAM CAS INHIBIT GENERATED BY U1MB MMU DECODING

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Based on Michael St. Pierre's revision 1.1 2017-10-1

Sheet: /CPU, RAM, CS/  
File: cpu-base-ram-cs.sch

**Title: 1088XEL**

Size: A4	Date: 2017-11-09
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Size: A	Date: 2017-11
KiCad E.D.A.	kicad 4.0.5+dfsg1-4

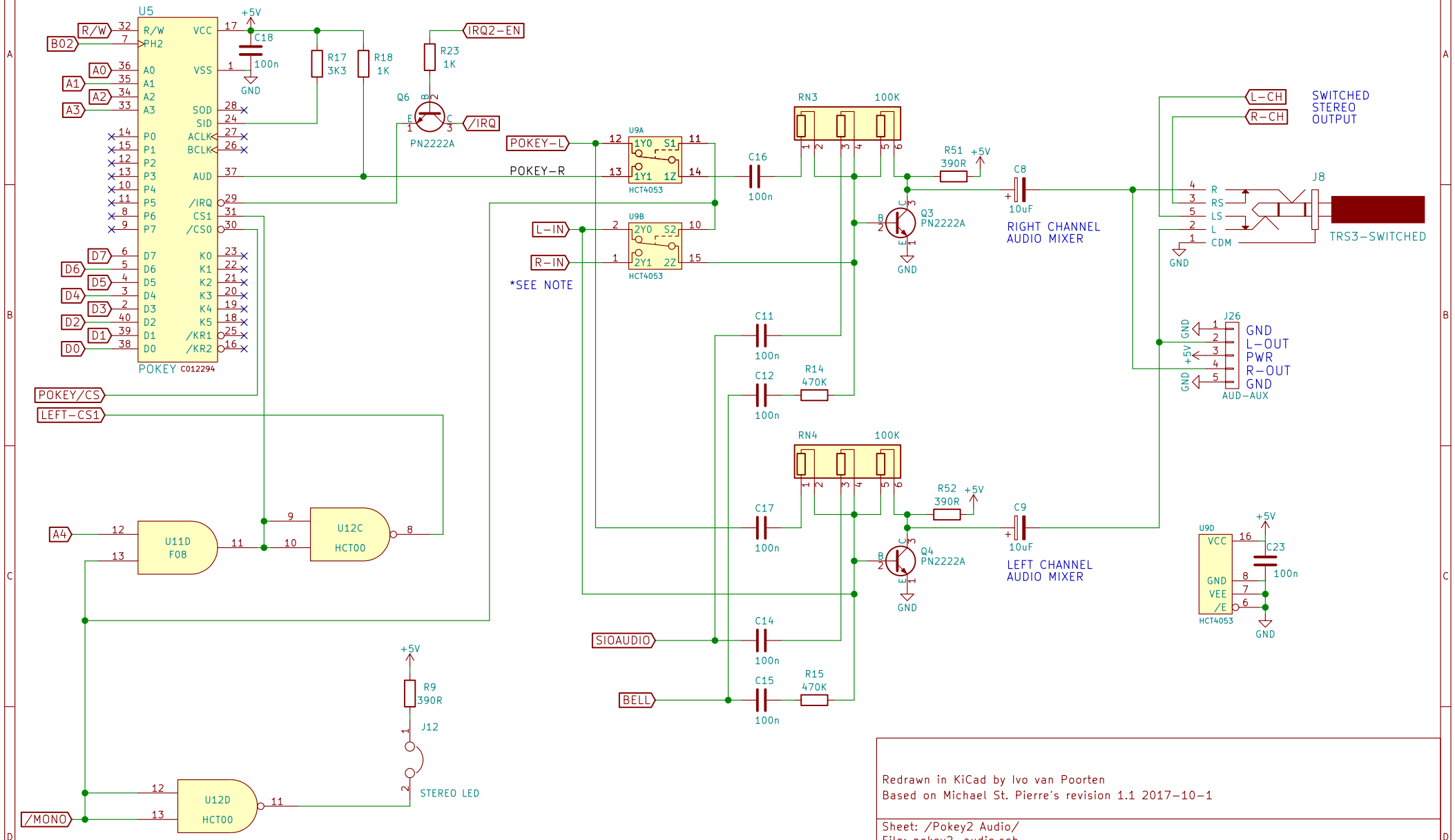
Rev: A

Id: 2/7





# RIGHT CHANNEL POKEY



\*NOTE: R-IN and L-IN GO DIRECTLY INTO THE SUMMING AMPLIFIERS, SO REQUIRE AN INLINE RESISTOR AND CAPACITOR ON THE MPBI DEVICE IF THE HAVE AUDIO OUTPUTS

Redrawn in KiCad by Ivo van Poorten  
Based on Michael St. Pierre's revision 1.1 2017-10-1

Sheet: /Pokey2 Audio/  
File: pokey2-audio.sch

**Title: 1088XEL**

Size: A4 Date: 2017-11-09

KiCad E.D.A. kicad 4.0.5+dfsg1-4

Rev: A

Id: 5/7

## A



## 1



## C

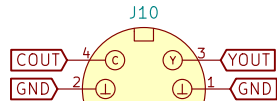


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Rev: A  
Id: 6/7

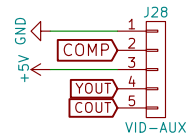
## STD VIDEO



S-VIDEO M-DIN4  
STACKED VIDEO CONN

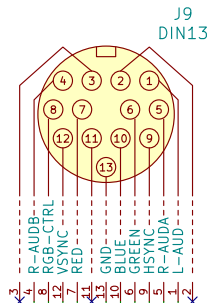


COMP-VIDEO RCA

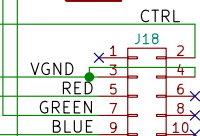


VID-AUX

## RGB / YPbPr



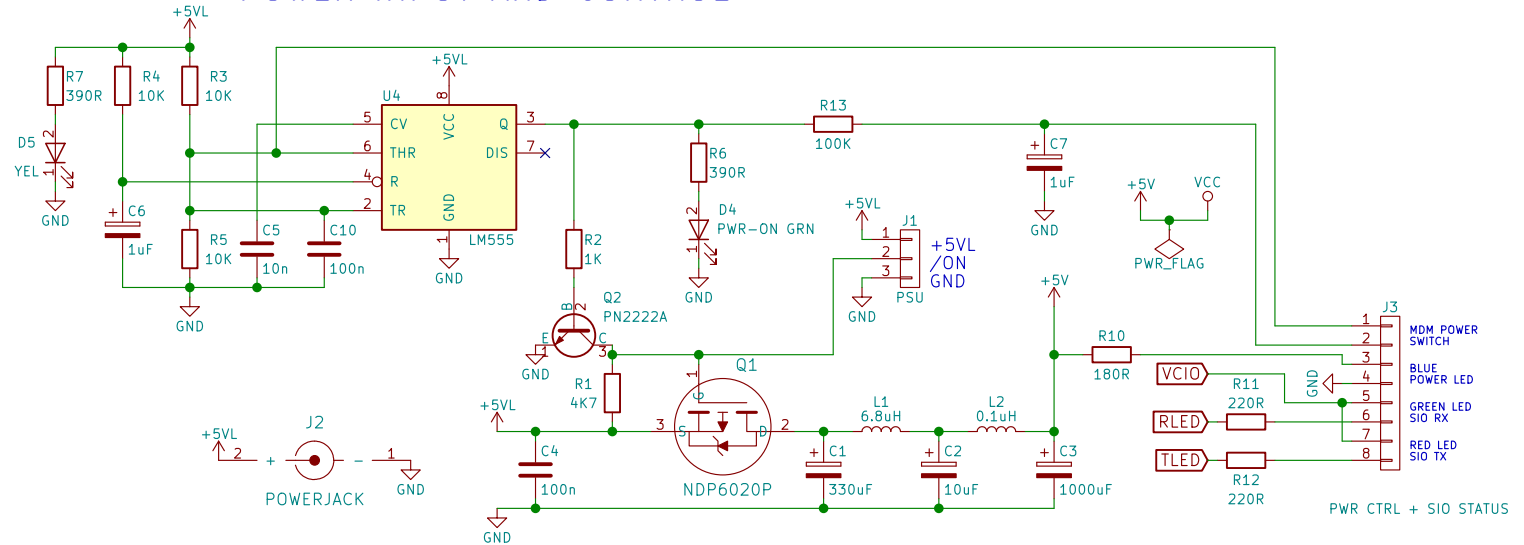
THIS IS MERELY A  
SC1224 COMPATIBLE  
VIDEO PASS-THRU  
WHICH REQUIRES AN  
INDEPENDANT VIDEO  
BOARD TO DRIVE IT.  
R-AUDIO IS PROVIDED  
ON 2 PINS FOR  
COMPATIBILITY REASONS.



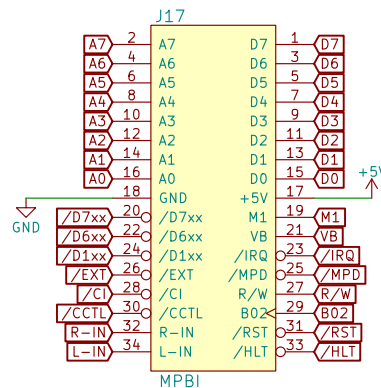
SOPHIA RIBBON CABLE

BUFFERED  
/CSYNC

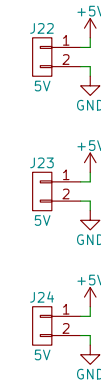
## POWER INPUT AND CONTROL



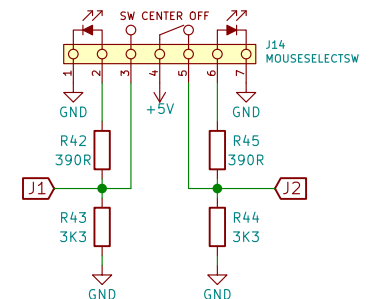
## Mini-PBI



## Accessory Power



## Mouse Select Switch



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Sheet: /Power Video-Out Mini-PBI Misc/  
File: power-video-out-mini-pbi-misc.sch

Title: 1088XEL

Size: A4 Date: 2017-11-09

KiCad E.D.A. kicad 4.0.5+dfsg1-4

Rev: A

Id: 7/7