Sheet: VeraModule **VERA FPGA** 

File: vera-fpga.sch

Sheet: BusDecoder

**BUS DECODER** 

File: busdecoder.sch

Sheet: Vera FPGA flash

**VERA SPI FLASH** SD CARD INTERFACE

File: vera-fpga-flash.sch

Sheet: CartridgeInterface

CARTRIDGE INTERFACE

File: cartridgeInterface.sch

Sheet: PowerSupply

**POWER SUPPLY** 

File: powersupply.sch

FIDUCIAL TOP

FID3 FID4 Fiducial

FIDUCIAL BOTTOM

O FID2 O FID1 Fiducial

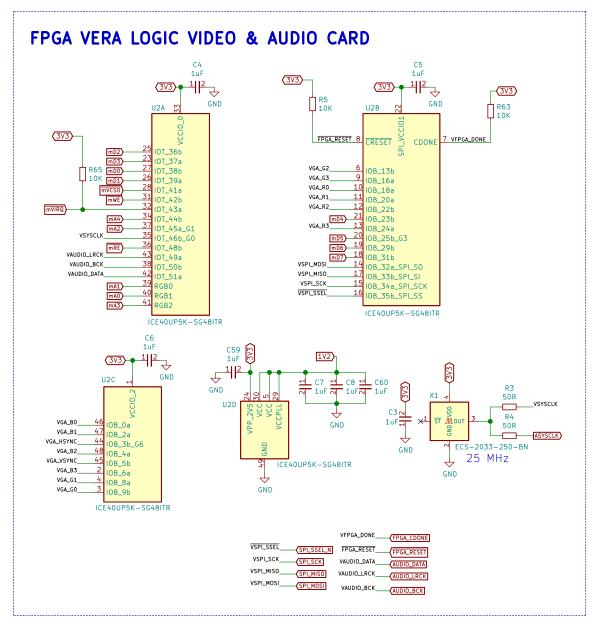
LOGO1 LOGO3 LOGO5
VERA X16 LOGO KICAD DESIGN ESP32\_BOBOARD LOGO2 ATARI READY LOGO4 ATARI DUO BUS

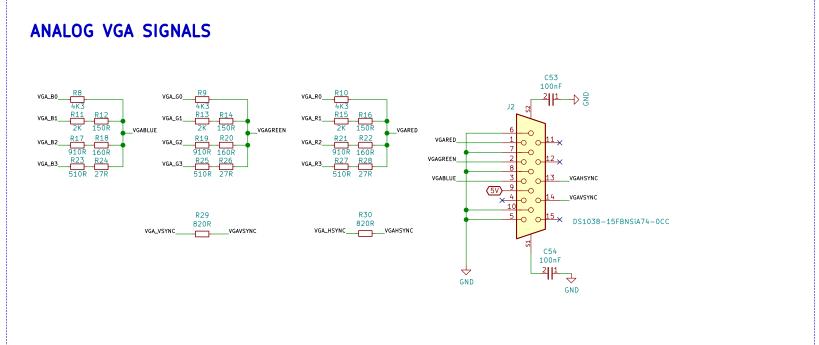
Gianluca Renzi **RetroBit Lab** 

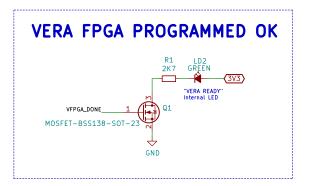
Sheet: / File: VERA-MODULE-RBL.sch

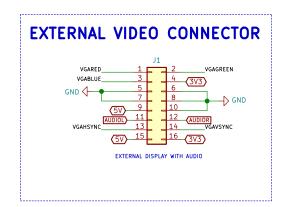
Title: VERA FPGA Audio & Video Board

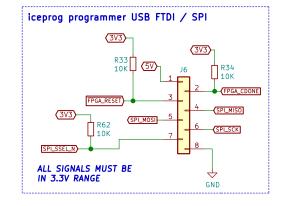
Size: A3 Date: 2025-09-17 KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1











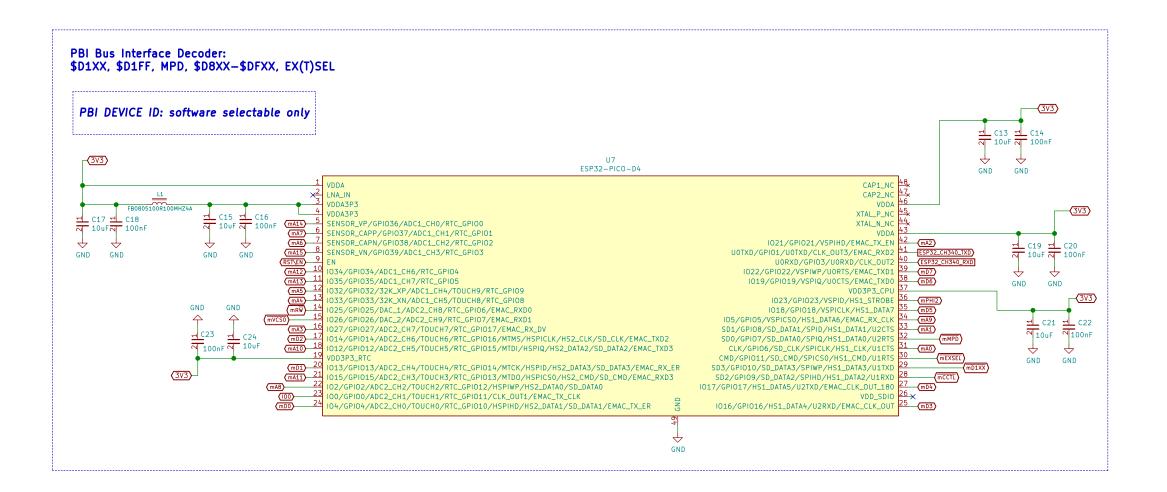
Gianluca Renzi
RetroBit Lab

Sheet: /VeraModule/
File: vera-fpga.sch

Title: VERA MODULE AND EXTERNAL VIDEO CONNECTOR

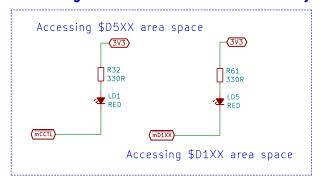
Size: A3 Date: 2025-09-17 Rev: 1.0

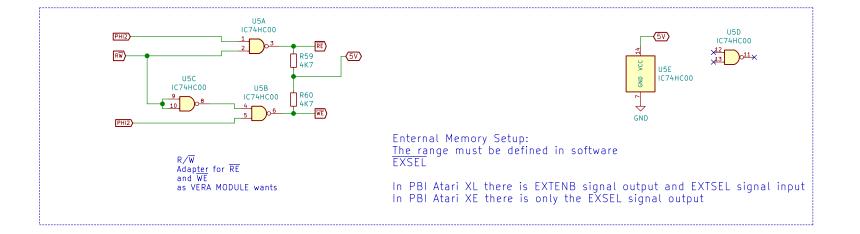
KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1 Id: 2/6

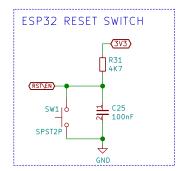


mVCSO active & A15..A0 \$D8XX-\$DFXX -> MPD active (Internal 2K ROM) \$D1FF access & DATABUS = PBI DEVICE ID -> mVCSO active/deactive

## Those signals are valid in ATARI XE only

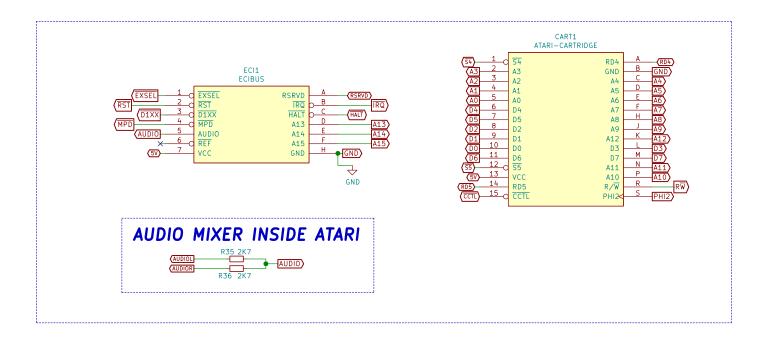




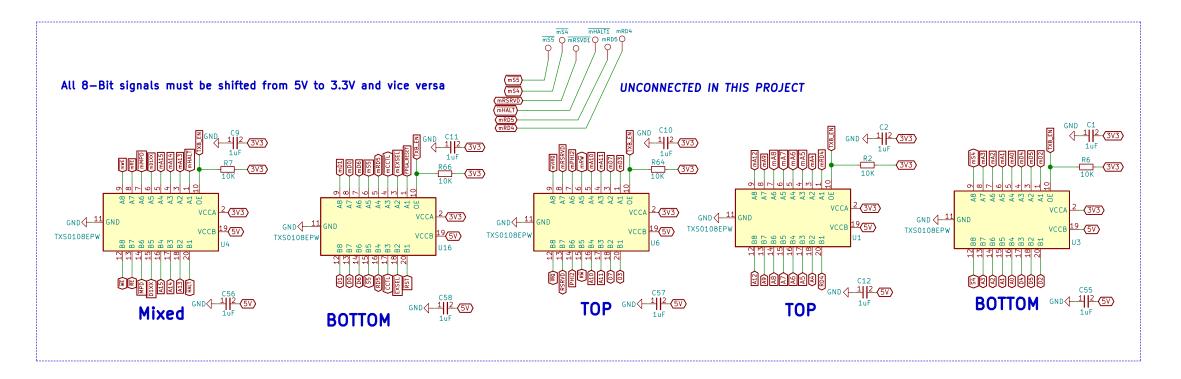


Gianluca	Renzi			
RetroBit	Lab			
Sheet: /	Sheet: /BusDecoder/			
File: bus	decoder.sch			
Title: I	BUS DECODER			
Size: A3	Date: 2025-09-17	Rev: 1.0		
KiCad E.	D.A. kicad 5.1.9+dfsg1-1+deb11	u1 ld: 3/6		
	7	8		

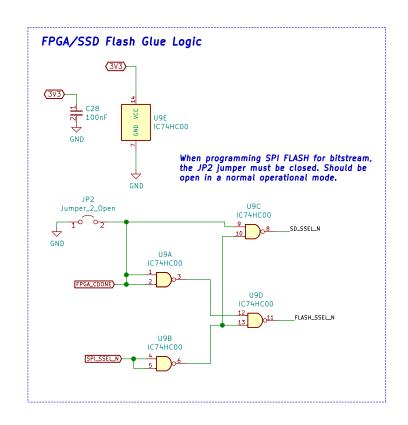
## ATARI 130XE ECI & CARTRIDGE INTERFACE

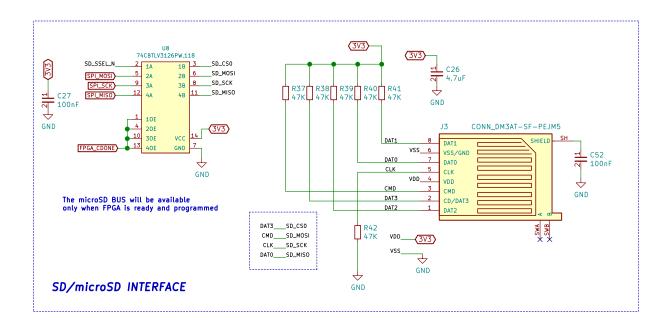


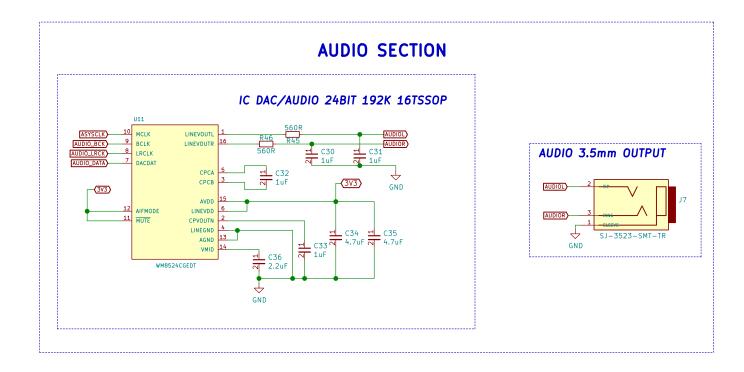
## **BUS LOGIC LEVEL SHIFTERS**

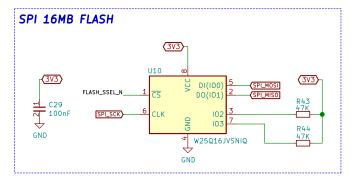


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Sheet: /CartridgeInterface/	
File: cartridgeInterface.sch	
Title: CARTRIDGE INTEFACE AND BUS LEVEL SHIFTERS	
Size: A3 Date: 2025-09-17	Rev: 1.0
KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1	ld: 4/6
7	8









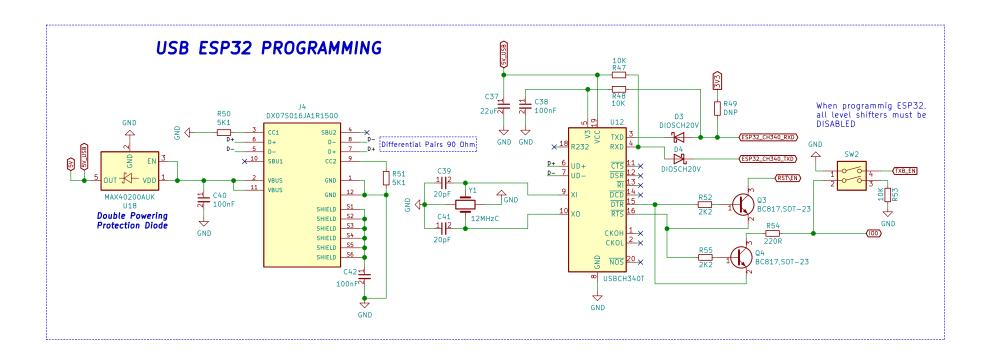
Gianluca Renzi
RetroBit Lab

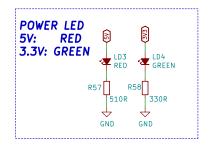
Sheet: /Vera FPGA flash/
File: vera-fpga-flash.sch

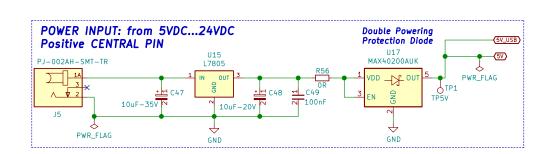
Title: uSD Card and FLASH for FPGA

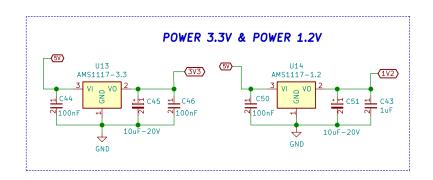
Size: A3 Date: 2025-09-17 Rev: 1.0

KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1 Id: 5/6









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Sheet: /PowerSupply/
File: powersupply.sch

Title: POWERSUPPLY and USB

Size: A3 Date: 2025-09-17 Rev: 1.0

KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1 Id: 6/6