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 LOGO2 ATARI READY

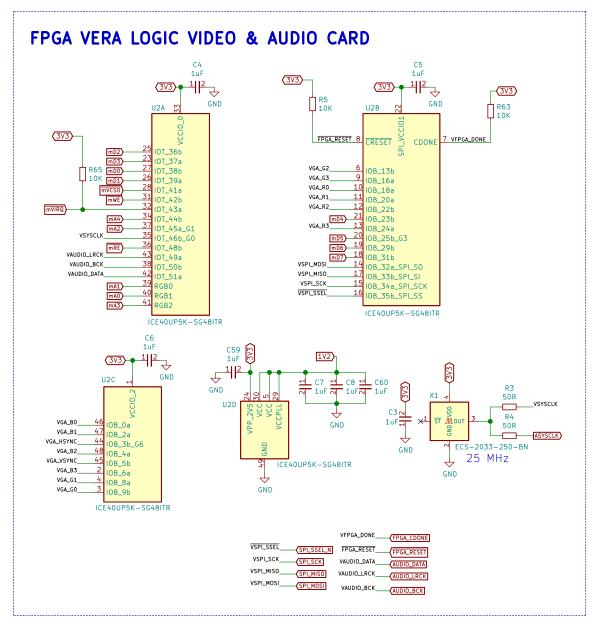
LOGO1 LOGO3 LOGO5
VERA X16 LOGO KICAD DESIGN ESP32\_BOBOARD LBL1 LOGO4 ATARI DUO BUS

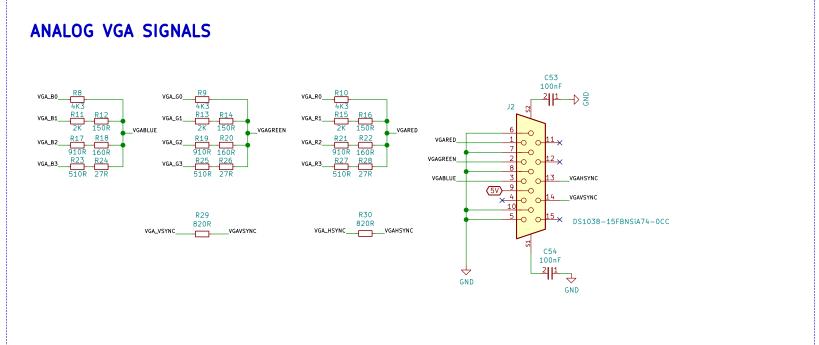
Gianluca Renzi **RetroBit Lab** 

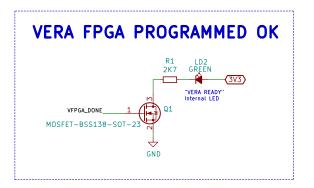
Sheet: / File: VERA-MODULE-RBL.sch

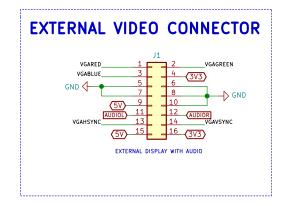
Title: VERA FPGA Audio & Video Board

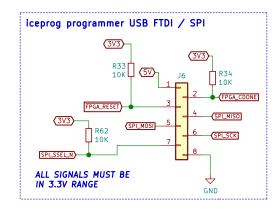
Size: A3 Date: 2025-09-23 KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1

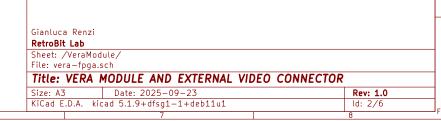


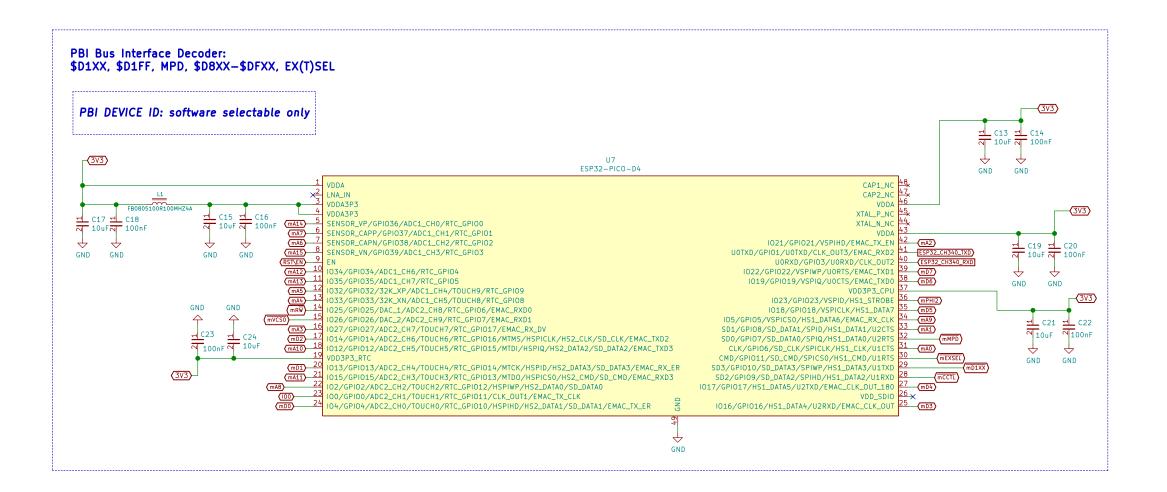






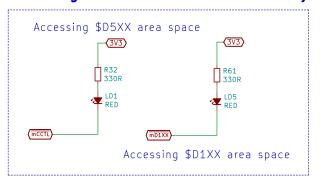


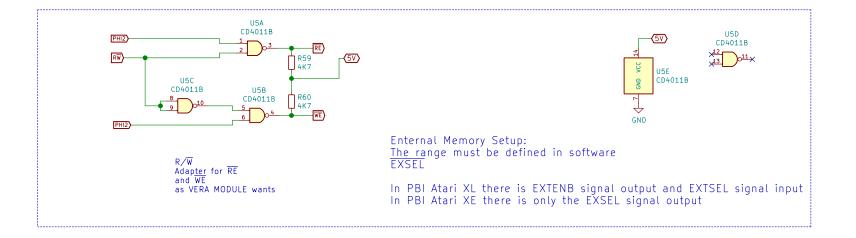


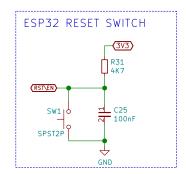


mVCSO active & A15..A0 \$D8XX-\$DFXX -> MPD active (Internal 2K ROM) \$D1FF access & DATABUS = PBI DEVICE ID -> mVCSO active/deactive

## Those signals are valid in ATARI XE only

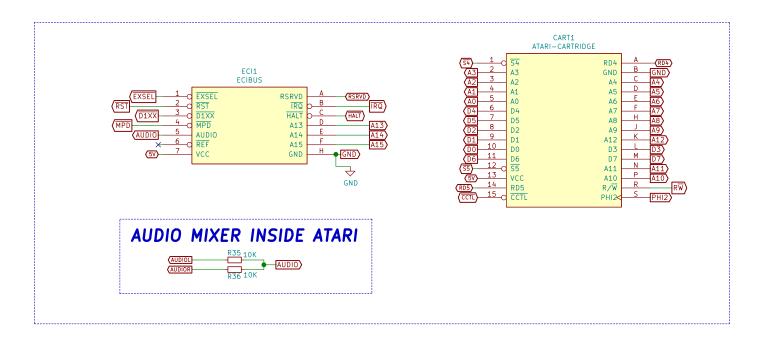




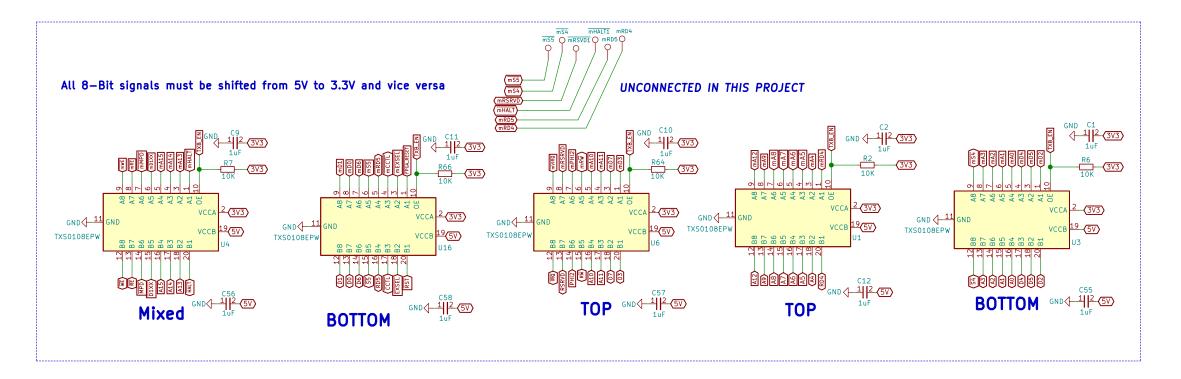


Gian	Gianluca Renzi									
RetroBit Lab										
Shee	Sheet: /BusDecoder/									
File:	File: busdecoder.sch									
Title: BUS DECODER										
Size: A3		Date: 2025-09-23		Rev: 1.0						
KiCa	ad E.D.A. kid	ad 5.1.9+dfsg1-1+deb11u1		ld: 3/6						
		7		8						

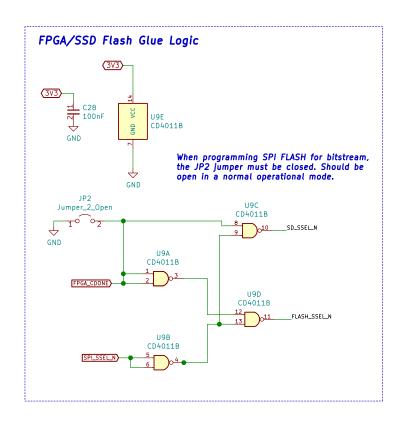
## ATARI 130XE ECI & CARTRIDGE INTERFACE

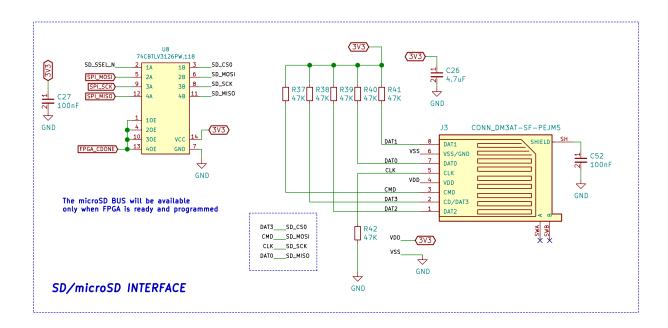


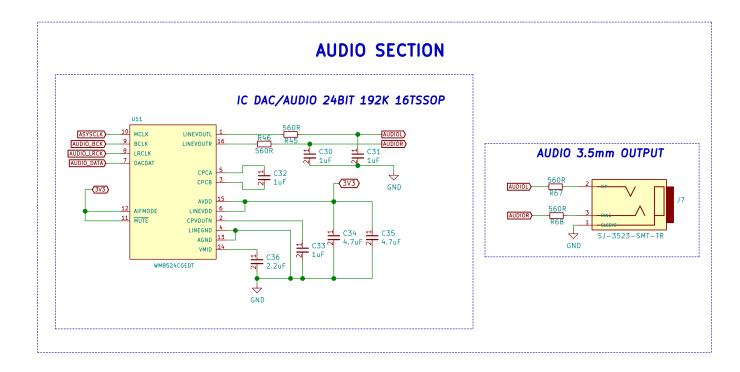
## **BUS LOGIC LEVEL SHIFTERS**

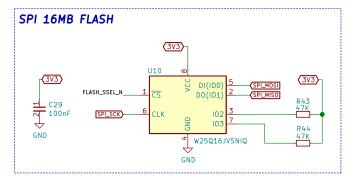


Gianluca Renzi <b>RetroBit Lab</b>					
Sheet: /Cartridg File: cartridgeInt					
Title: CARTR					
Size: A3	Date: 2025-09-23			Rev: 1.0	
KiCad E.D.A. ki	ad 5.1.9+dfsg1-1+deb11u1	-		ld: 4/6	
	7			8	









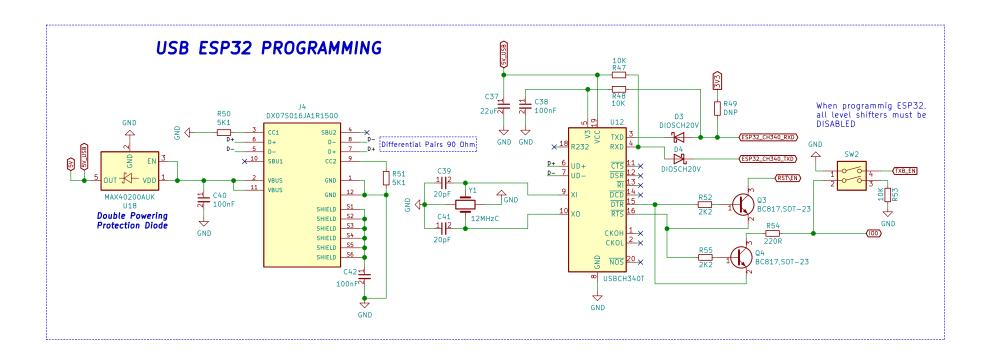
Gianluca Renzi
RetroBit Lab

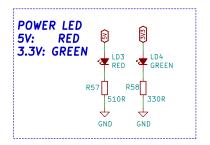
Sheet: /Vera FPGA flash/
File: vera-fpga-flash.sch

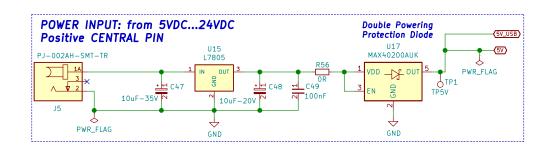
Title: uSD Card and FLASH for FPGA

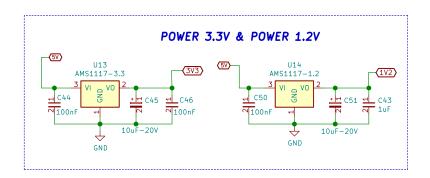
Size: A3 Date: 2025-09-23 Rev: 1.0

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: 2025-09-23 Rev: 1.0

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