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



FIDUCIAL BOTTOM



L0G01 LOGO2

ATARI READY

LOGO3 LOG05 VERA X16 LOGO KICAD DESIGN ESP32_BOBOARD

LOGO4 ATARI DUO BUS

Gianluca Renzi

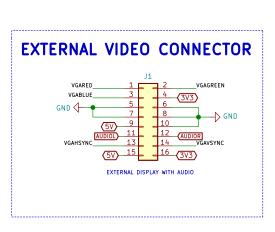
RetroBit Lab

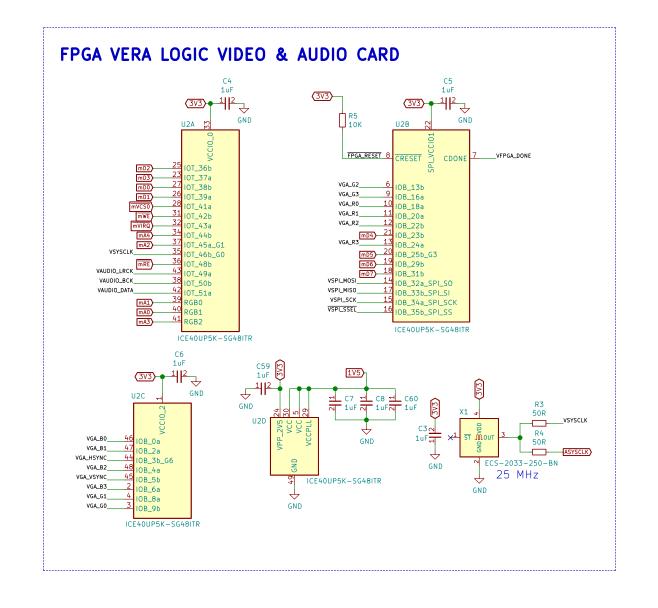
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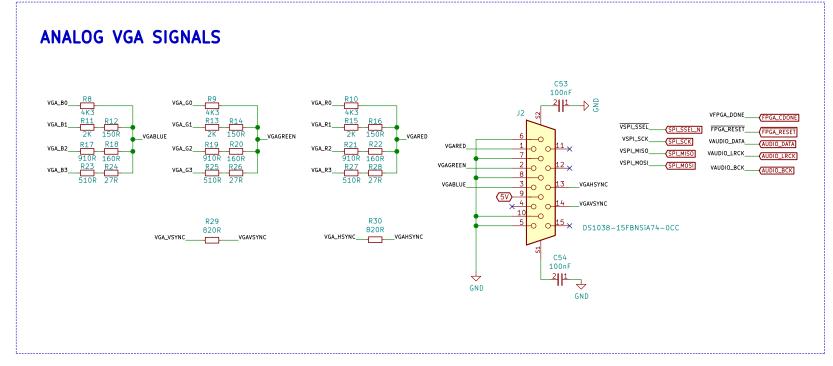
File: VERA-MODULE-RBL.sch

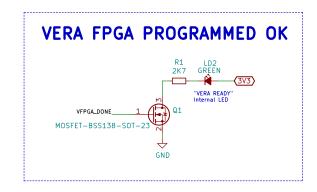
Title: VERA FPGA Audio & Video Board

Size: A4 Date: 2025-09-12 Rev: 1.0 KiCad E.D.A. kicad 5.1.9+dfsq1-1+deb11u1 ld: 1/6

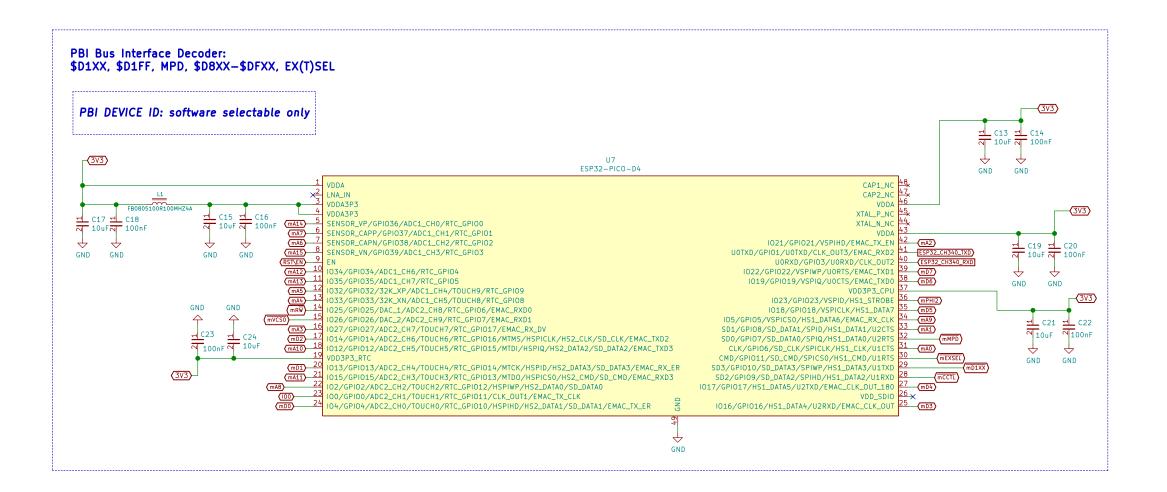






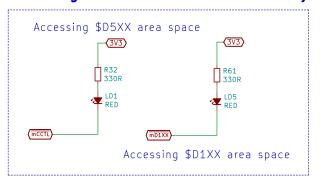


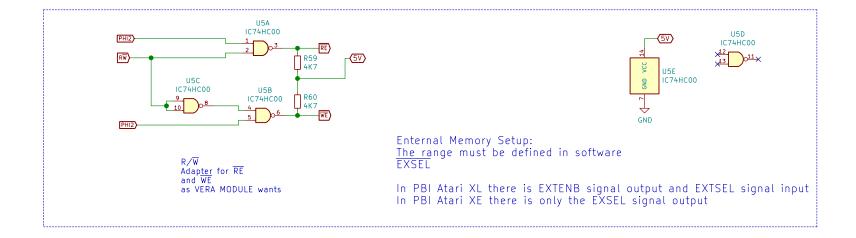
Gianluca Renzi					
RetroBit Lab Sheet: /VeraModule/					
Title: VERA MODULE AND EXTERNAL VIDEO CONNECTOR					
Size: A3 Date: 2025-09-12	Rev: 1.0				
KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1	ld: 2/6				

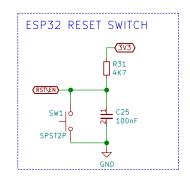


mVCSO active & A15..A0 \$D8XX-\$DFXX -> MPD active (Internal 2K ROM) \$D1FF access & DATABUS = PBI DEVICE ID -> mVCSO active/deactive

Those signals are valid in ATARI XE only

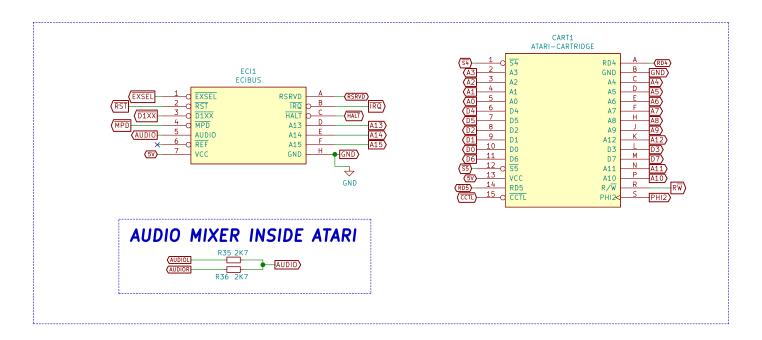




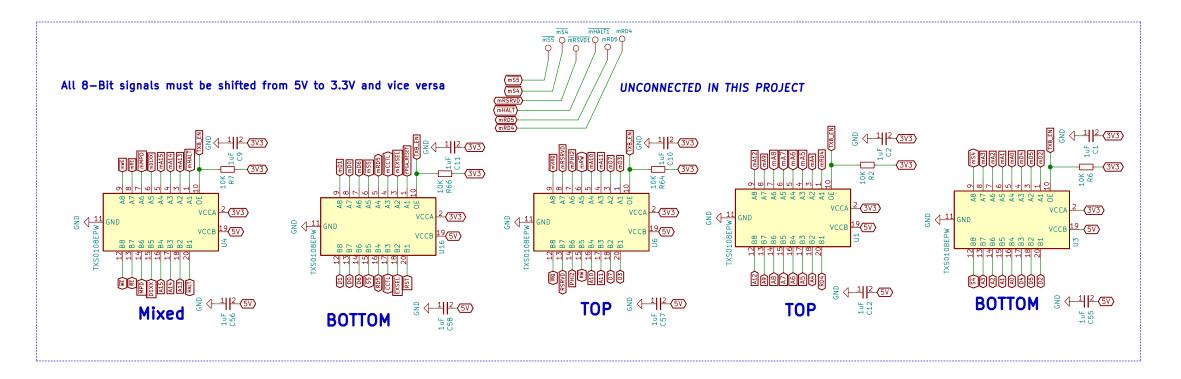


	Gianluca	Renzi						
	RetroBit L	_ab						
	Sheet: /B	usDeco	der/					
	File: busd	File: busdecoder.sch						
	Title: B	US D	ECODER					
	Size: A3		Date: 2025-09-12				Rev: 1.0	
	KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1					ld: 3/6		
Ī			7				8	

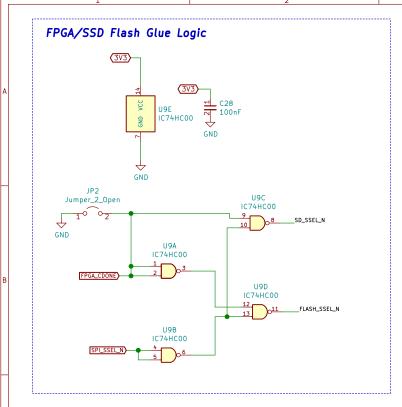
ATARI 130XE ECI & CARTRIDGE INTERFACE

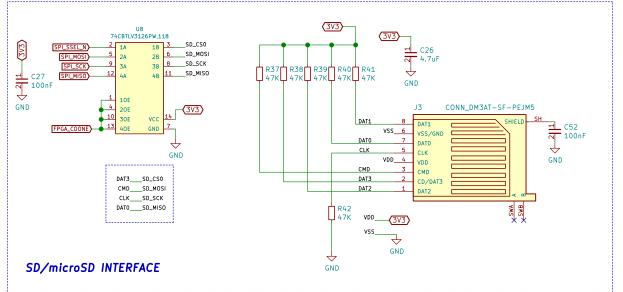


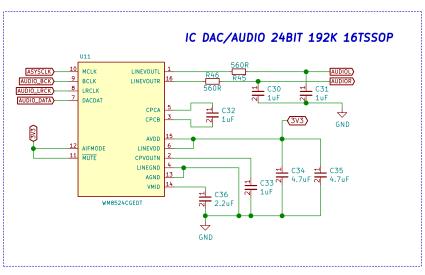
BUS LOGIC LEVEL SHIFTERS

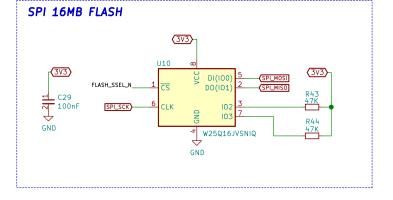


Gianluca Renzi	
RetroBit Lab	
Sheet: /CartridgeInterface/	
File: cartridgeInterface.sch	
Title: CARTRIDGE INTEFACE AND BUS LEVEL SHIFTERS	
Size: A3 Date: 2025-09-12	Rev: 1.0
KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1	ld: 4/6
7	8



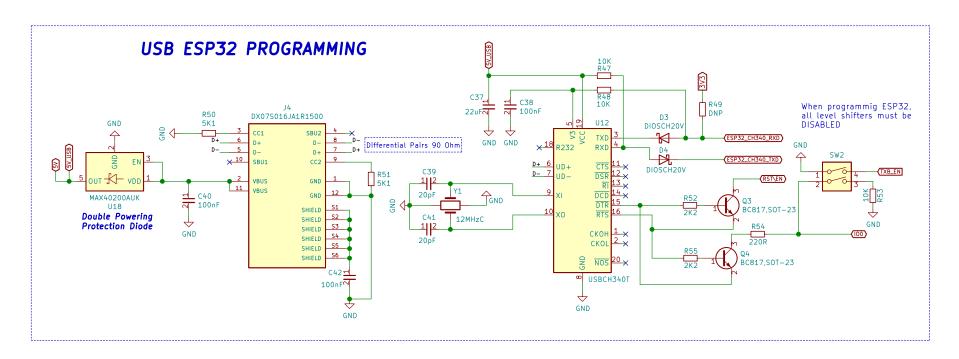


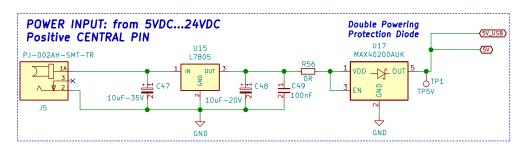


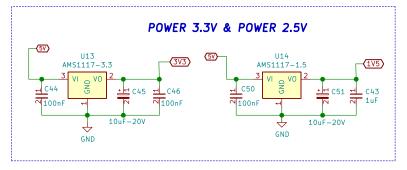


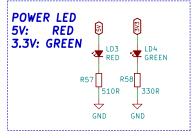
Gianluca Renzi RetroBit Lab Sheet: /Vera FPGA flash/ File: vera-fpga-flash.sch

Title: uSD Card and FLASH for FPGA Size: A4 Date: 2025-09-12 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: A4 Date: 2025-09-12 Rev: 1.0 KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1 Id: 6/6