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

LOGO4 ATARI DUO BUS

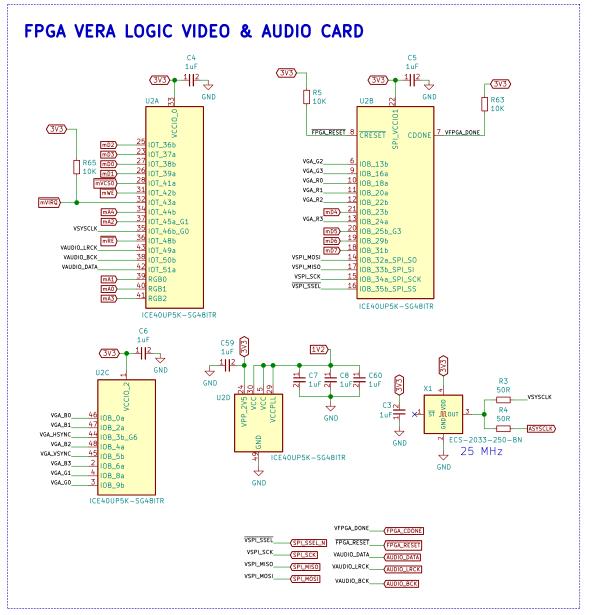
LOGO1 LOGO3 LOGO5
VERA X16 LOGO KICAD DESIGN ESP32_BOBOARD

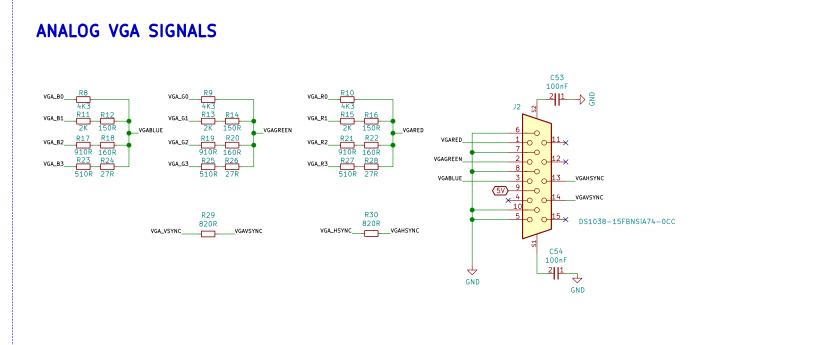
Gianluca Renzi **RetroBit Lab**

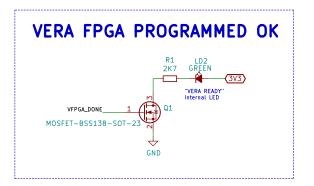
Sheet: / File: VERA-MODULE-RBL.sch

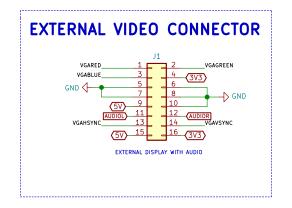
Title: VERA FPGA Audio & Video Board

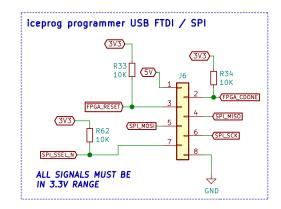
Size: A3 Date: 2025-09-19 KiCad E.D.A. kicad 5.1.9+dfsg1-1+deb11u1

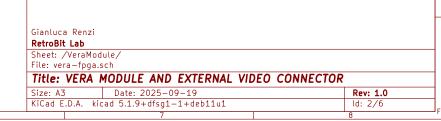


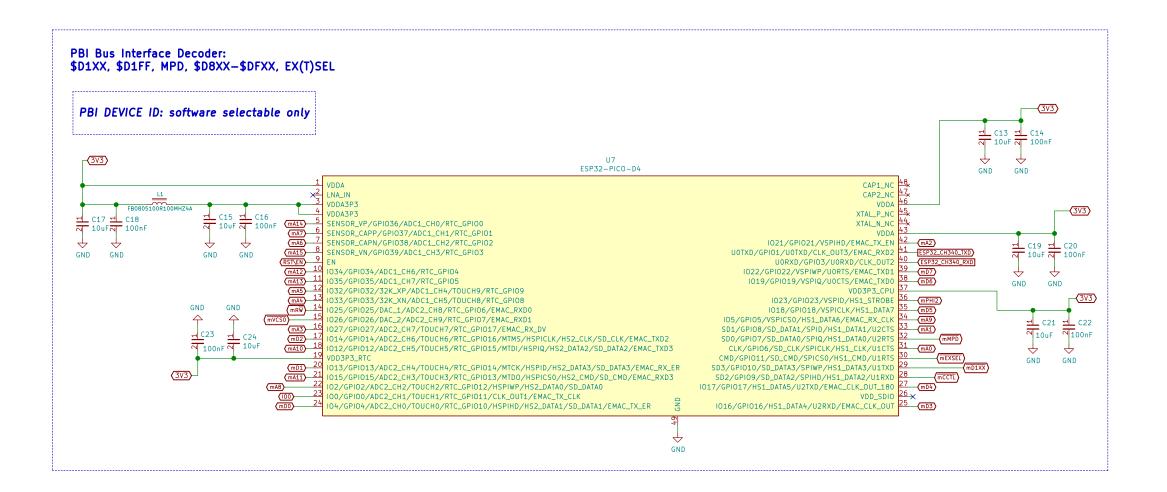






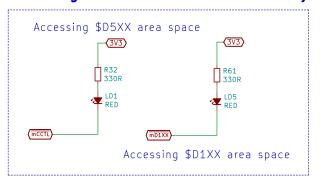


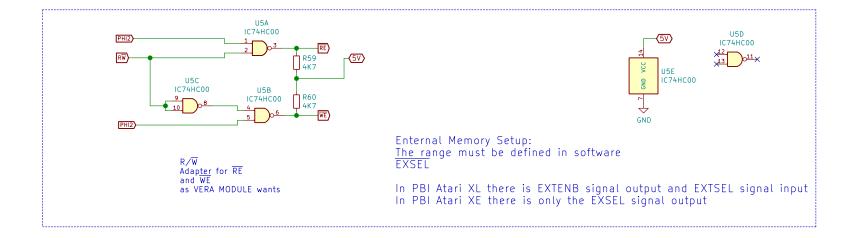


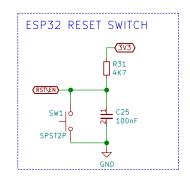


mVCSO active & A15..A0 \$D8XX-\$DFXX -> MPD active (Internal 2K ROM) \$D1FF access & DATABUS = PBI DEVICE ID -> mVCSO active/deactive

Those signals are valid in ATARI XE only

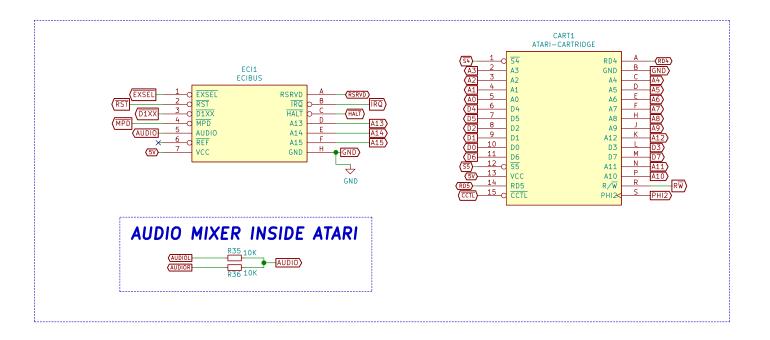




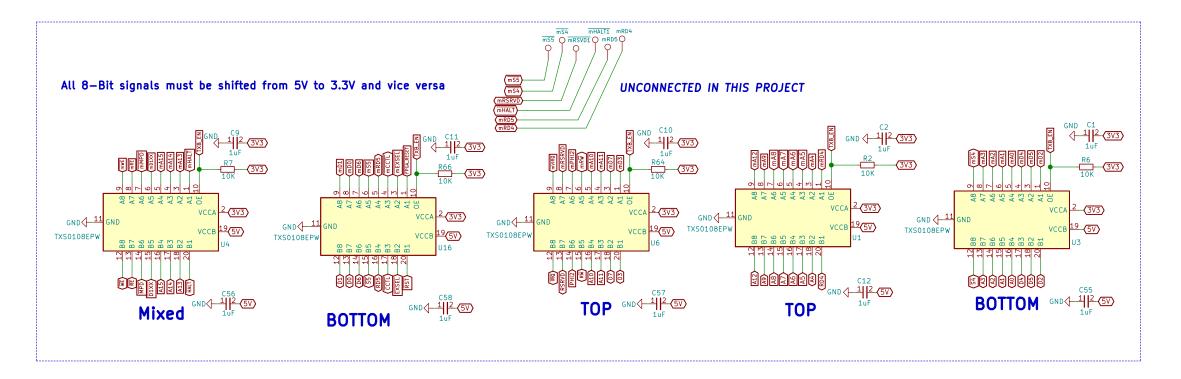


Gianluc	a Renzi								
RetroB	it Lab								
Sheet:	Sheet: /BusDecoder/								
File: bu	File: busdecoder.sch								
Title:	BUS D	ECODER							
Size: A	3	Date: 2025-09-19				Rev: 1.0			
KiCad	E.D.A. kid	ad 5.1.9+dfsg1-1+deb11u1				ld: 3/6			
		7				8			

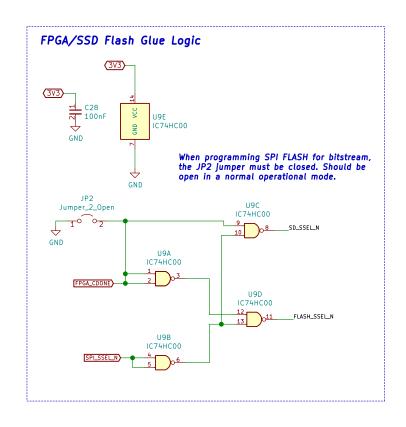
ATARI 130XE ECI & CARTRIDGE INTERFACE

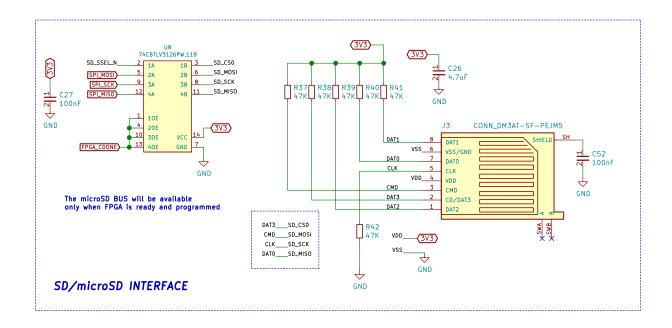


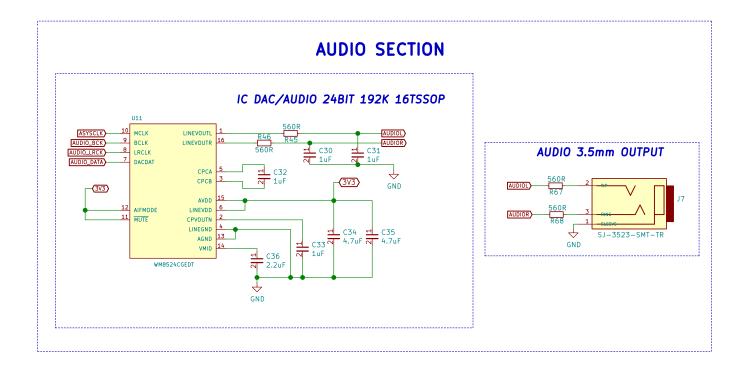
BUS LOGIC LEVEL SHIFTERS

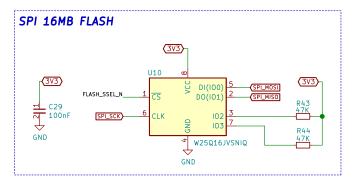


Gianluca Renzi RetroBit Lab				
Sheet: /Cartridg File: cartridgeInt				
Title: CARTR	! S			
Size: A3	Date: 2025-09-19		Rev: 1.0	
KiCad E.D.A. ki	ld: 4/6			
	7		8	









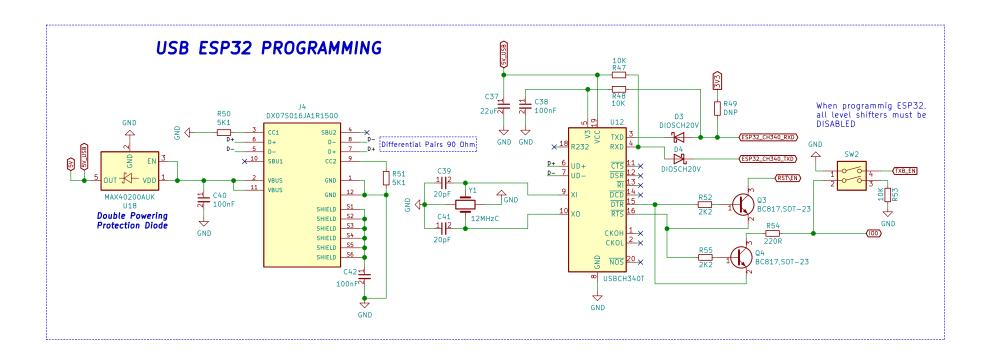
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RetroBit Lab

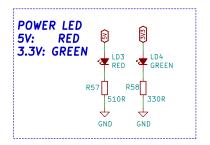
Sheet: /Vera FPGA flash/
File: vera-fpga-flash.sch

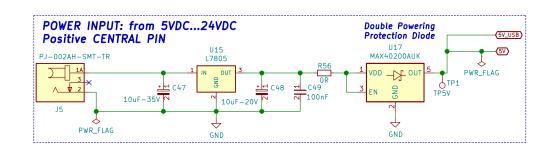
Title: uSD Card and FLASH for FPGA

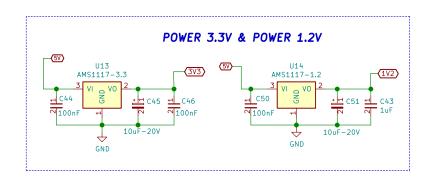
Size: A3 Date: 2025-09-19 Rev: 1.0

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: 2025-09-19 Rev: 1.0

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