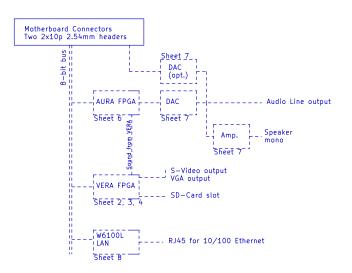
OpenX65 Video/Audio & Ethernet Board ("V/A-BO")

Block Diagram:



Revision History: Sheets:

Rev. / Date	Description
rev01 / 28.4.2023	Initial design, PCB 100x100mm 2-layers. VERA with VGA and S-Video outputs. AURA with line-out and amp/speaker, 2 DA LAN by W6100L

Video VERA FPGA

Soubor: vabo-sheet-02.kicad_sch

VERA SPI-Flash, SDC

Soubor: vabo-sheet-04.kicad_sch

Audio AURA FPGA

Soubor: vabo-sheet-06.kicad_sch

Video Outputs

Soubor: vabo-sheet-03.kicad_sch

Motherboard Connectors

Soubor: vabo-sheet-05.kicad_sch

Audio DAC, Output

Soubor: vabo-sheet-07.kicad_sch

Soubor: vabo-sheet-08.kicad sch

O FID101 Fiducial MountingHole H102 O FID102 Fiducial O FID103 Fiducial H103 MountingHole

This schematic contains portions of work done by Frank van den Hoe for the project VERA: https://github.com/fvdhoef/vera-module

MountingHole

Block Diagram

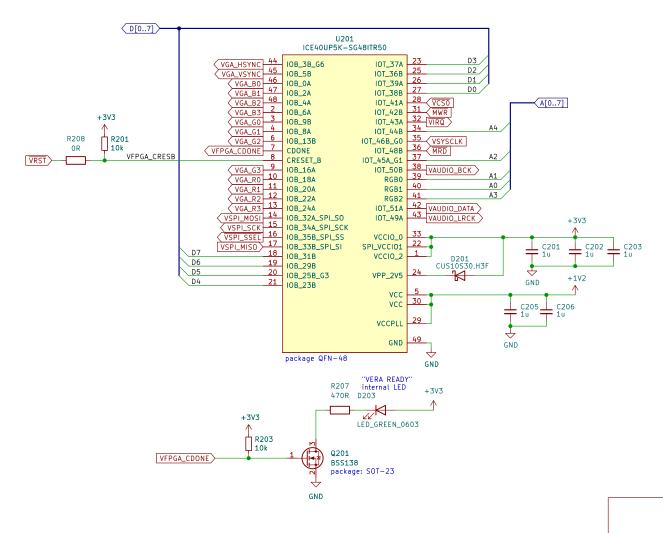
FOR X65.EU DESIGNED BY JSYKORA.INFO

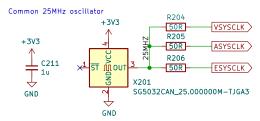
File: openX65-vabo.kicad_sch

Title: OpenX65 - Video/Audio & Ethernet Board

Date: 2023-04-28 Rev: rev01 KiCad E.D.A. kicad 6.0.11-3.fc36 ld: 1/8

"VERA" FPGA - Video Embedded Retro Adapter





VERA FPGA design by Frank van den Hoe
FOR X65.EU DESIGNED BY JSYKORA.INFO

Sheet: /Video VERA FPGA/ File: vabo-sheet-02.kicad_sch

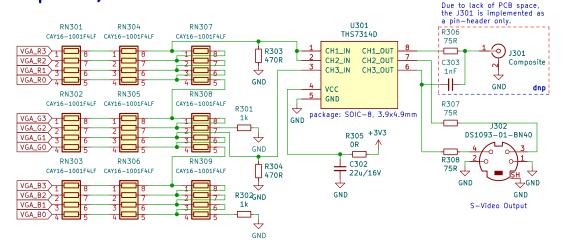
Title: OpenX65 — Video/Audio & Ethernet Board

 Size: A4
 Date: 2023-04-28
 Rev: rev01

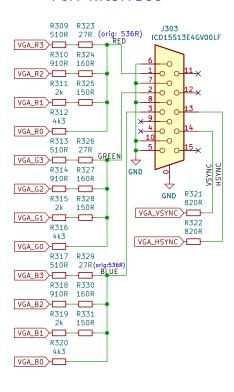
 KiCad E.D.A. kicad 6.0.11-3.fc36
 Id: 2/8

This schematic contains portions of work done by Frank van den Hoe for the project VERA: https://github.com/fvdhoef/vera-module

Composite / S-video interface



VGA interface



This schematic contains portions of work done by Frank van den Hoe for the project VERA: https://github.com/fvdhoef/vera-module

Video outputs from VERA

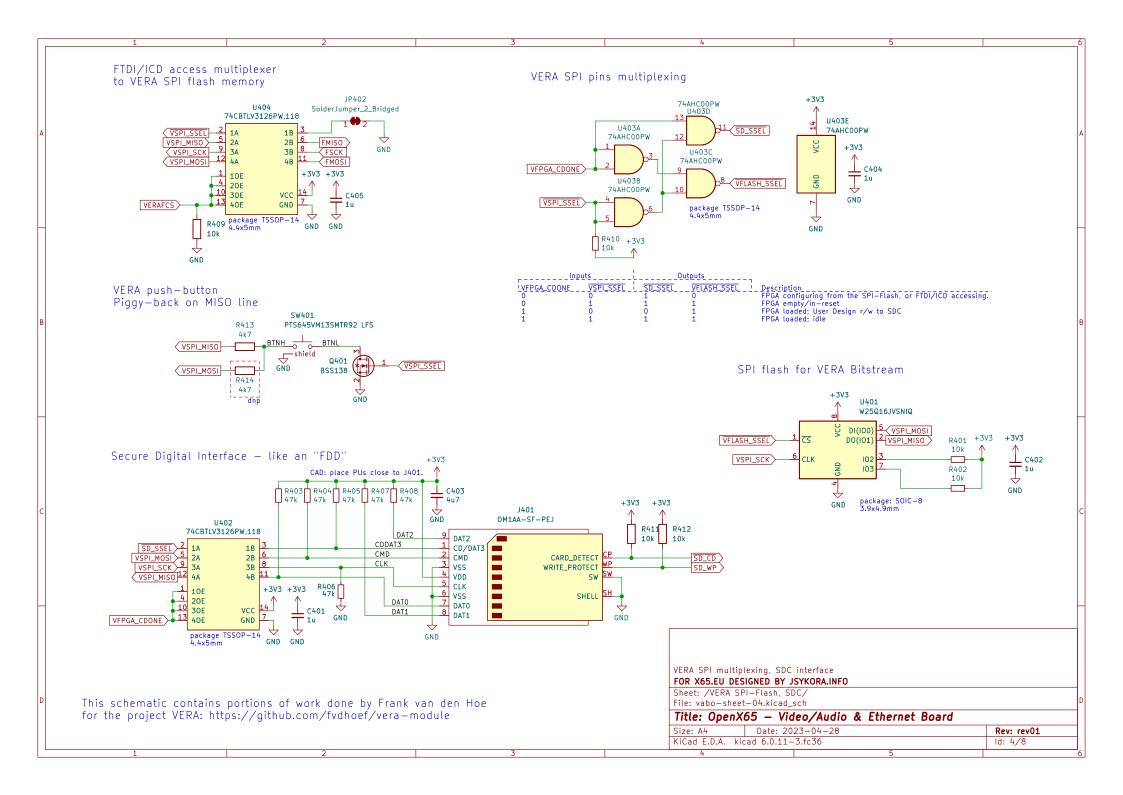
FOR X65.EU DESIGNED BY JSYKORA.INFO

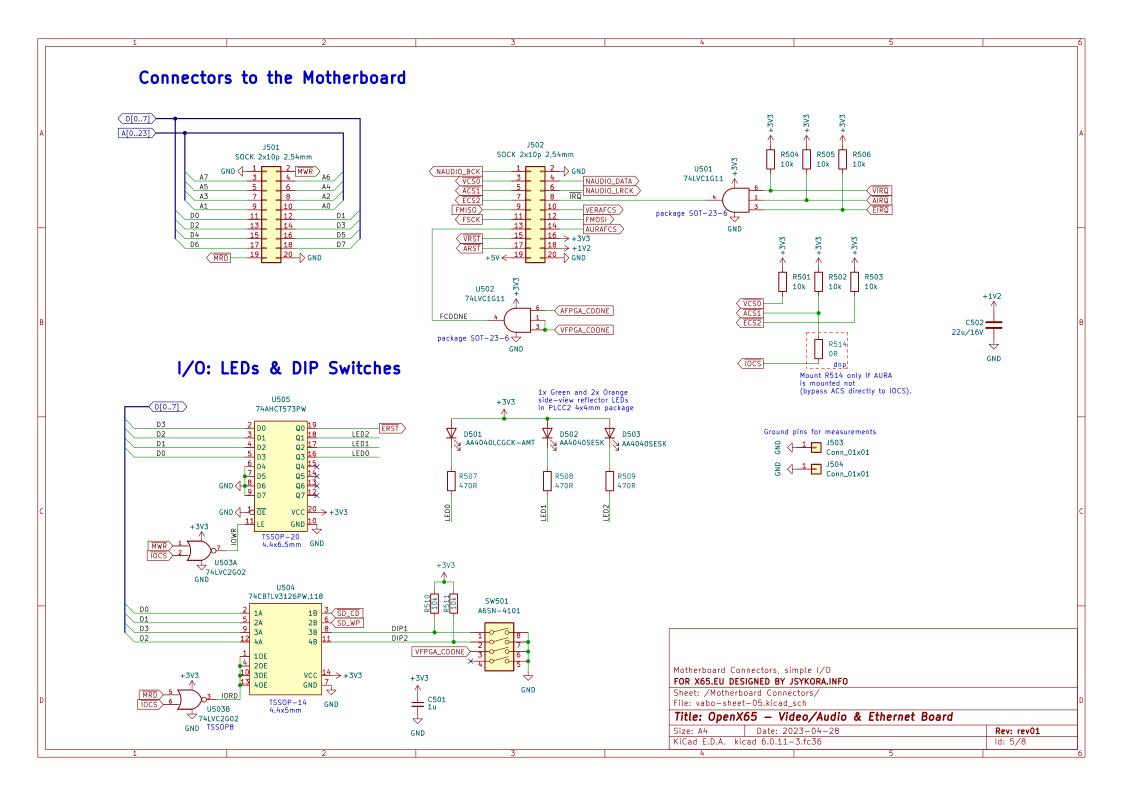
Sheet: /Video Outputs/

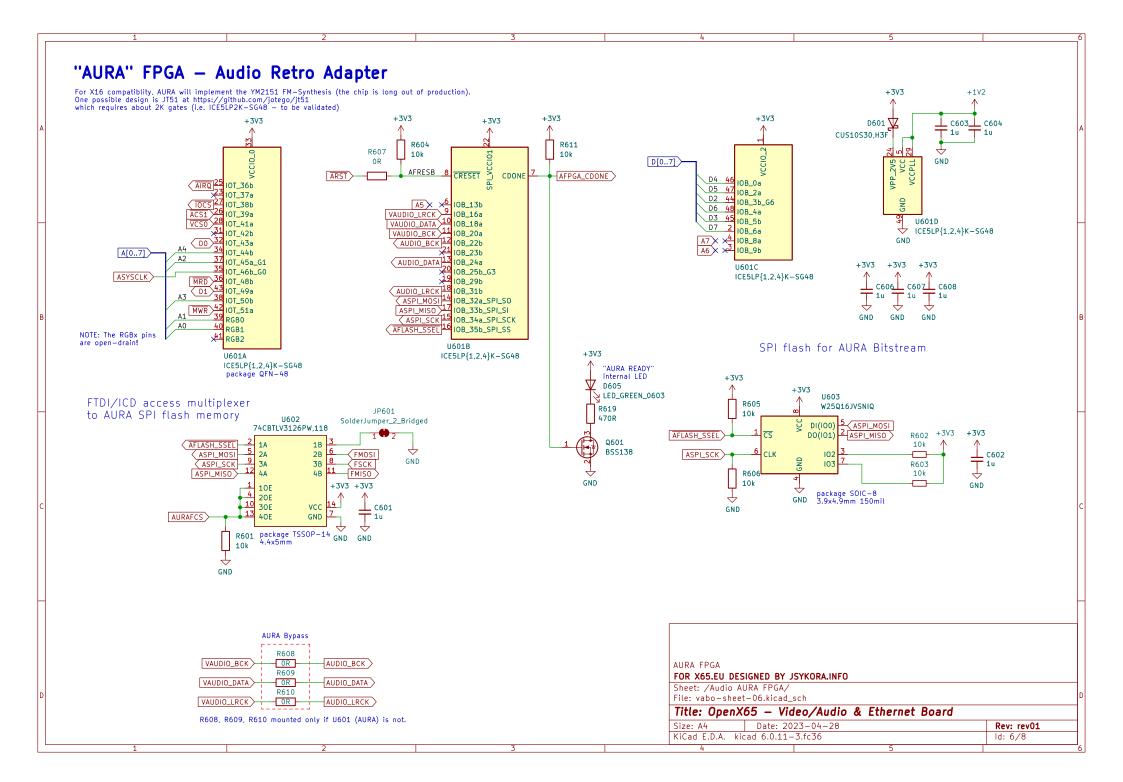
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Title: OpenX65 — Video/Audio & Ethernet Board		
Size: A4	Date: 2023-04-28	Rev: rev01
1410 1 5 0 1 11	1.6.0.11.7.6.76	1.1 7.70

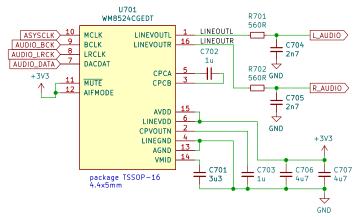
KiCad E.D.A. kicad 6.0.11-3.fc36



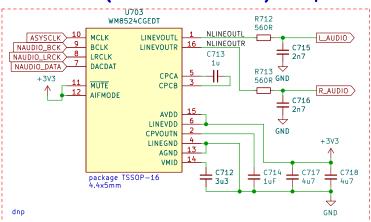


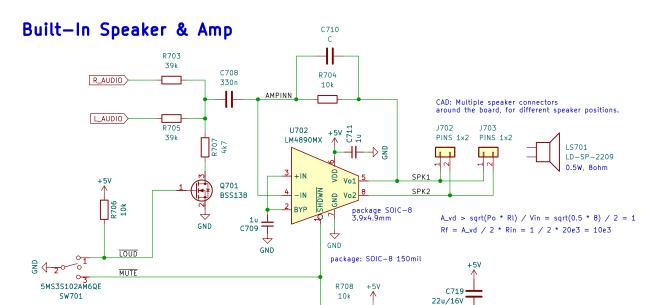


Audio DAC (PCM/PSG in VERA, FM in AURA)



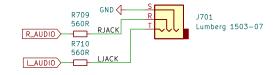
Audio DAC (Sound from NORA) - optional.





GND

3.5mm jack - AUDIO LINE output



This schematic contains portions of work done by Frank van den Hoe for the project VERA: https://github.com/fvdhoef/vera-module

Volume Control Switch 3 positions: MUTE - QUIET - LOUD.

Audio DAC, Speaker Amplifier, and Line Output FOR X65.EU DESIGNED BY JSYKORA.INFO

FUR XOSIEU DESIGNED BY JSTKURAINFU

Sheet: /Audio DAC, Output/ File: vabo-sheet-07.kicad_sch

Title: OpenX65 — Video/Audio & Ethernet Board

 Size: A4
 Date: 2023-04-28
 Rev: rev01

 KiCad E.D.A. kicad 6.0.11-3.fc36
 Id: 7/8

