

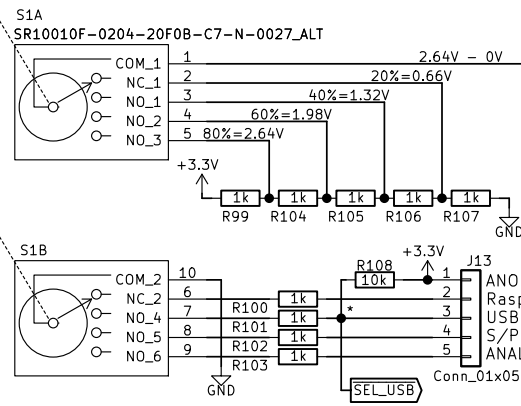
M96-16-SSD1306, etc...
I2C OEL DISPLAY
(OPTIONAL)

FTDI TTL-232R-3V3
USB-UART
DEBUG Cable

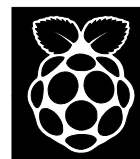
SOURCE SELECT
SWITCH

LOOK-UP-TABLE

SOURCE	MIN	MAX
4:Analog	12	15
3:S/PDIF	9	11
2:USB	6	8
1:RAS-Pi	3	5
0:MUTE	0	2

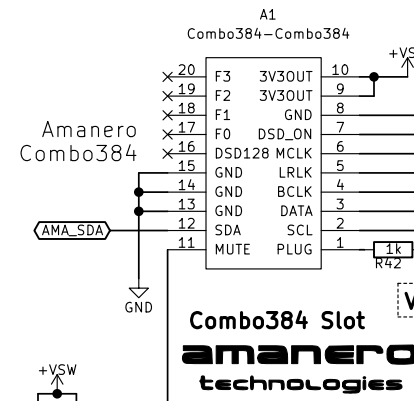


Raspberry-Pi Slot



LED SOURCE
INDICATOR

* Default: DSP's I2C slave port is connected to the Raspberry-pi.
(Optional modification features for the YORK users)
You can change that connection to the "York" interface's I2C port.
First you need Cut the pattern between pin-1 and pin-2 of JP4/JP5
then solder jumper between pin-2 and pin-3.
After this modification the "York" interface's I2C SCL/SDA will be
connected to the DSP instead of Raspberry-pi.



Combo384 Slot
amanero
technologies

Power Status LED

RED = SHUTDOWN/MUTE
GRN = RASPI ENABLED
BLU = POWER ON

SHUT OFF
RASPI RUN
POWER ON

LED_ABGR

Header_01x04
BLUE
GREEN
ANODE
RED

MUTE

2N7002
Q3
Q8

100k
R16
R37

3.3V
R71

XSMT

2N7002
Q9

100k
R31

3.3V

Sheet: ADC_IQ Part

File: ADC_IQ.sch

Designed by CyberPit 2023, 2024

Sheet: /
File: FreeDSP_OCTAVIA.sch

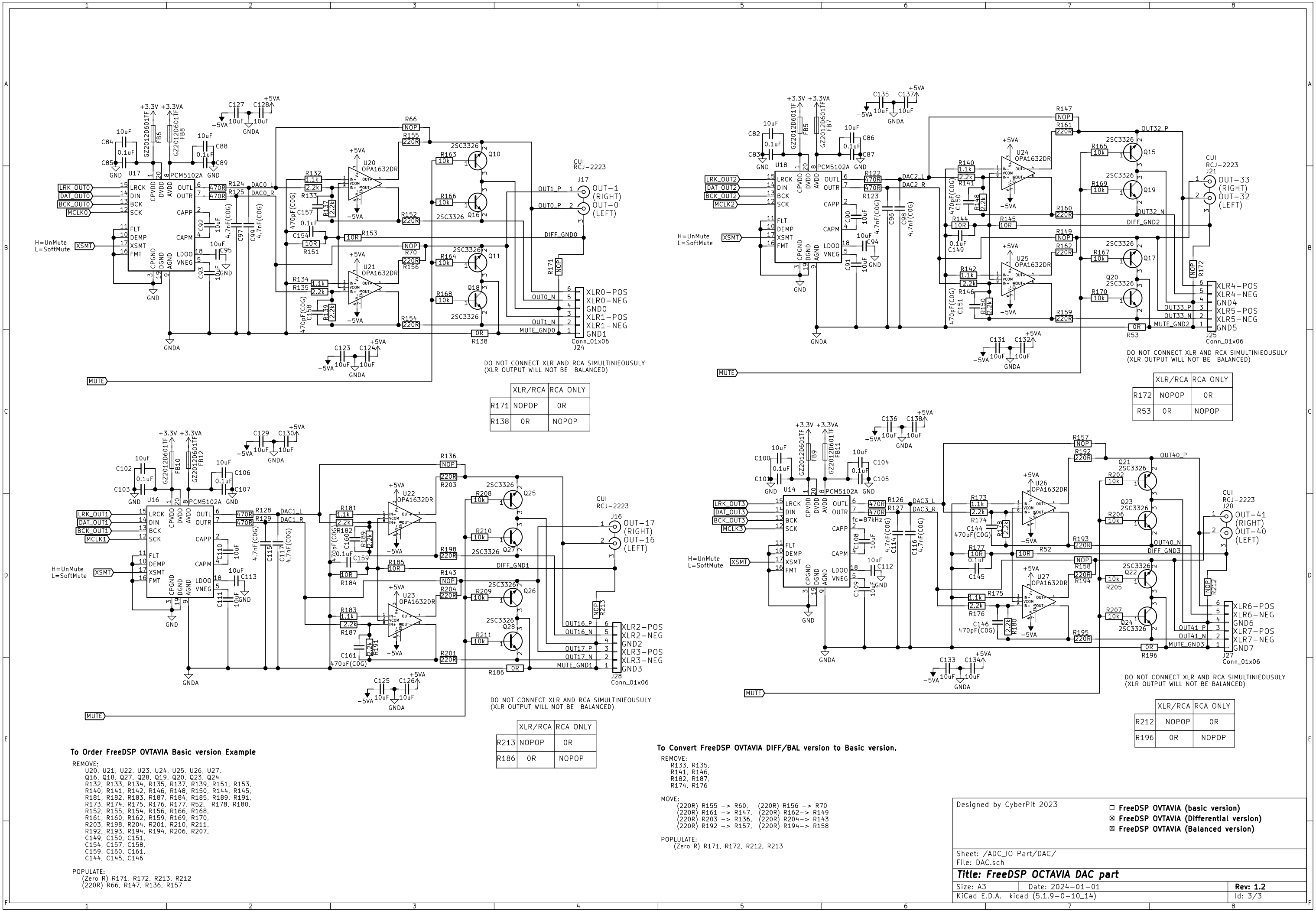
Title: FreeDSP OCTAVIA Main Board

Size: A3
KiCad E.D.A. kicad (5.1.9-0-10.14)

Date: 2024-09-21

Rev: 1.21

Id: 1/3



To Order FreeDSP OCTAVIA Basic version Example

REMOVE:
U20, U21, U22, U23, U24, U25, U26, U27,
Q16, Q18, Q27, Q28, Q19, Q20, Q23, Q24
R132, R133, R134, R135, R137, R139, R151, R153,
R140, R141, R142, R146, R148, R150, R144, R145,
R181, R182, R183, R187, R184, R185, R189, R191,
R173, R174, R175, R176, R177, R52, R178, R180,
R152, R155, R154, R156, R166, R168,
R161, R160, R162, R159, R169, R170,
R203, R198, R204, R201, R210, R211,
R192, R193, R194, R194, R206, R207,
C149, C150, C151,
C154, C157, C158,
C159, C160, C161,
C144, C145, C146

POPULATE:
(Zero R) R171, R172, R213, R212
(220R) R66, R147, R136, R157

To Convert FreeDSP OCTAVIA DIFF/BAL version to Basic version.

REMOVE:
R133, R135,
R141, R146,
R182, R187,
R174, R176

MOVE:
(220R) R155 -> R60, (220R) R156 -> R70
(220R) R161 -> R147, (220R) R162 -> R149
(220R) R203 -> R136, (220R) R204 -> R143
(220R) R192 -> R157, (220R) R194 -> R158

POPULATE:
(Zero R) R171, R172, R212, R213

Designed by CyberPit 2023

☐ FreeDSP OCTAVIA (basic version)
☒ FreeDSP OCTAVIA (Differential version)
☒ FreeDSP OCTAVIA (Balanced version)

Sheet: /ADC_IO Part/DAC/
File: DAC.sch

Title: FreeDSP OCTAVIA DAC part

Size: A3 | Date: 2024-01-01 | Rev: 1.2
KiCad E.D.A. kicad (5.1.9-0-10_14) | Id: 3/3