

PicoCoreBBDSI 1.50

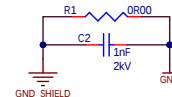
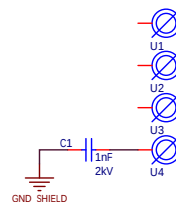
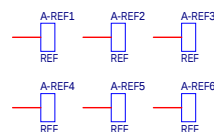
- 01 Title and Rev History
- 02 PicoCore B2B
- 03 USB-Hub
- 04 Audio / SD-Card
- 05 Serial / GPIO / SPI
- 06 LCD / CAM
- 07 ETHERNET / CAN
- 08 mPCle
- 09 DC/DC

Differential impedances:

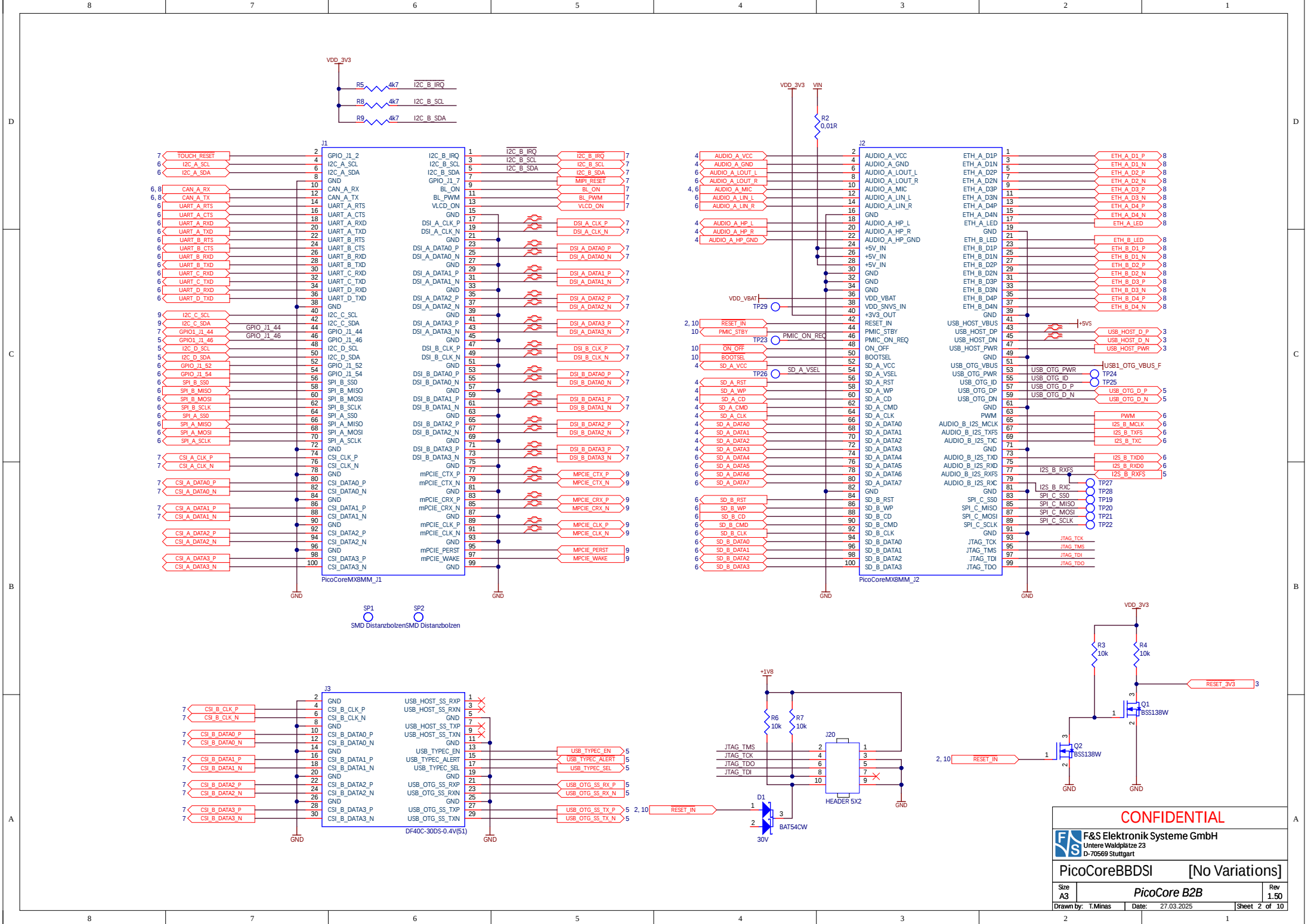
- LVDS 100 ohm
- USB 90 ohm
- DSI 100 ohm
- ETH 100 ohm
- mPCle 100 ohm

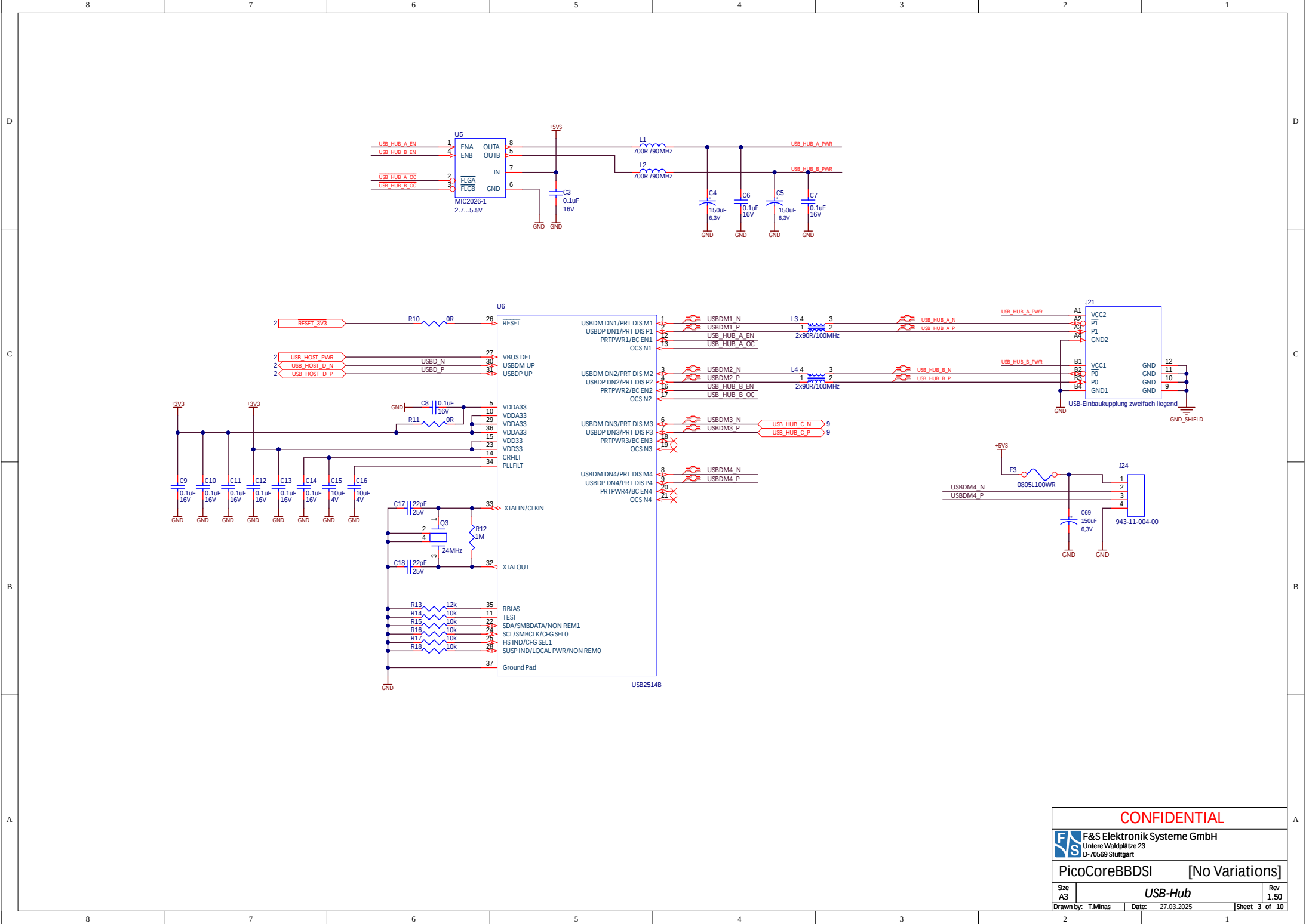
Revision History

Rev.	Date	By	Description
1.00	21.03.2019	T.Minas	- Initial version
1.10	11.05.2019	M.Döner	- Connect GPIO to J2 pin 28 for mipi display reset signal - 24Mhz oscillator added to J24 for camera - CON_AUDIO_HP_MIC GROUND and MIC should are switched to fulfill the more common CTAI standard
1.20	22.06.2020	T.Minas	- Voltage supply for JTAG changed to 1.8V - Level shifter added for 3.3V reset signal - ESD protection added to LCD and SD signals - SP3232 changed to SP330E to also provide RS485 - Dip switch added to control SP330E - GPIO_J1_52 is now used as TOUCH_RESET# signal on J14 - SD_B port is connected to J8 - PWM (J2_63) is connected to J8 - UART_A_RTS / UART_A_CTS now connected to J8 - Option added to exchange UART_B_RTS and UART_B_CTS - Adapt UART namings to the PicoCore
1.30	12.10.2020	T.Minas	- U5: Connecti RXD to pin 9 and CTS to pin 8 - Add support for PicoCoreMX8M+ - Add support for USB 3.0 TYPE-C - Add second camera interface based on Basler DART pinout - Change Connector J12 to Hirose FH28D-28S-0.5SH(05) - Connect VIN directly to the PicoCore module - Remove LDO for VDD_SNVS - Remove MCP2515 and connect CAN_A to U18 - Exchange GPIO_J1_2 and GPIO_J1_52 (TOUCH_RESET) - Add connector for SPI_A
1.40	11.08.2021	T.Minas	- Use another GPIO for USB_TYPEC_ALERT in case J3 is not mounted - Correct ouput signal namings on U11 - Change Type-C connector to Winconn UC-3019-2GNB-RR
1.50	13.01.2025	T.Minas	- Change J12 from FH41-28S-0.5SH(05) to SFW15R-1STE1LF - Remove reset generator - Update J19 pinout (V_BL added) - Update J14 pinout - J24 added (4th USB hub port) - Decoupling capacitors added for audio signals on J11 - R103 added to optional connect GPIO_J1_46 to U30 ALERT

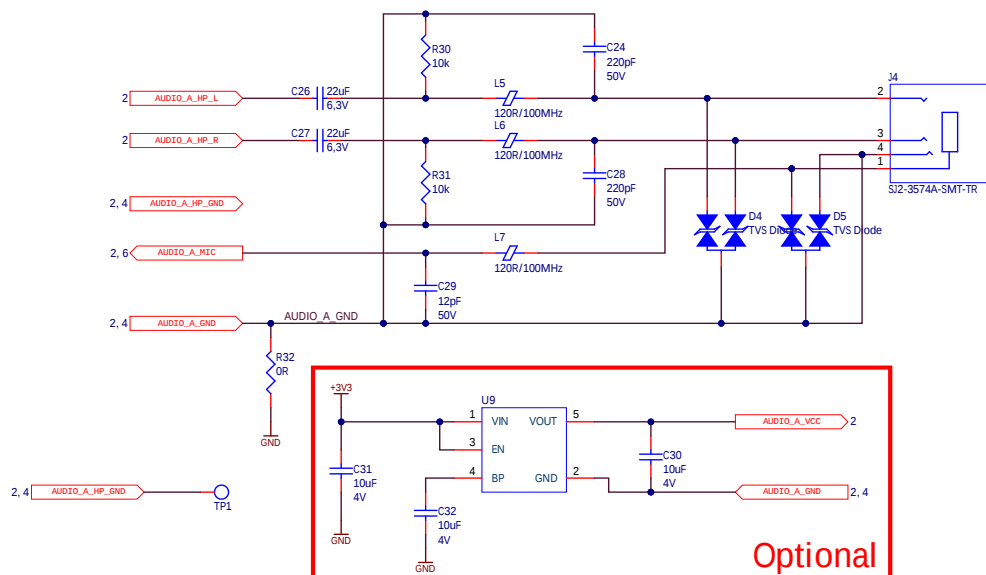


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PicoCoreBBDSI		[No Variations]
Size A3	Title Page	Rev 1.50
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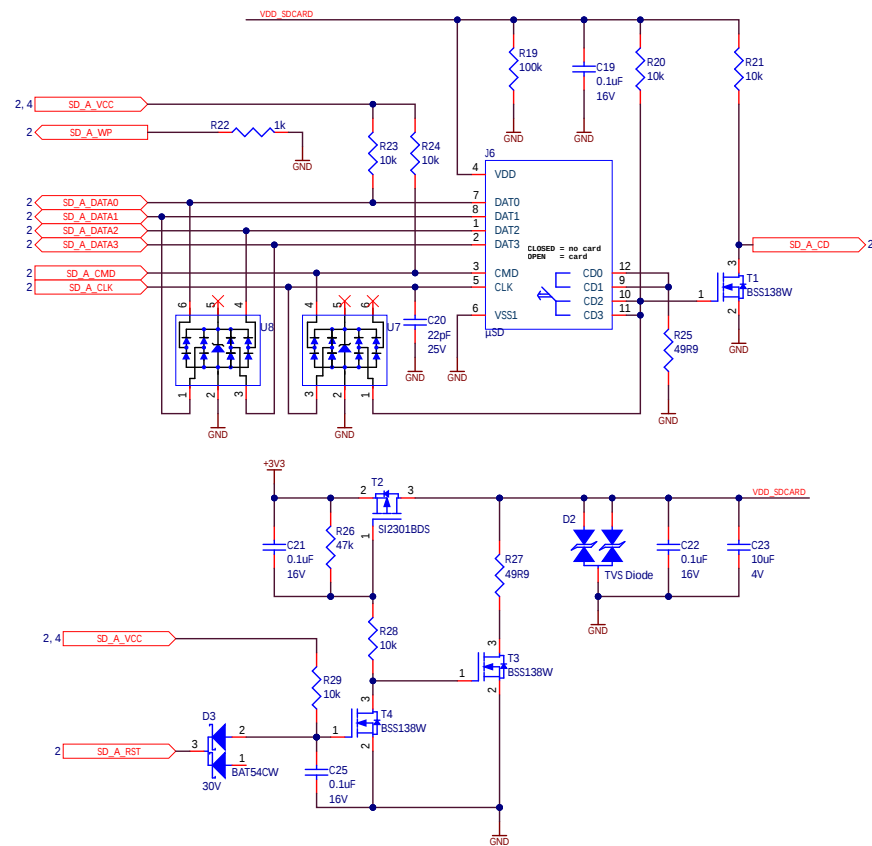


AUDIO



Optional

SD CARD



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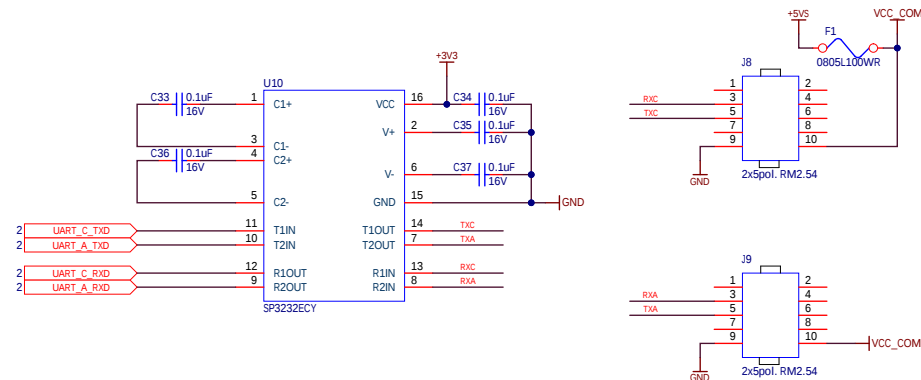
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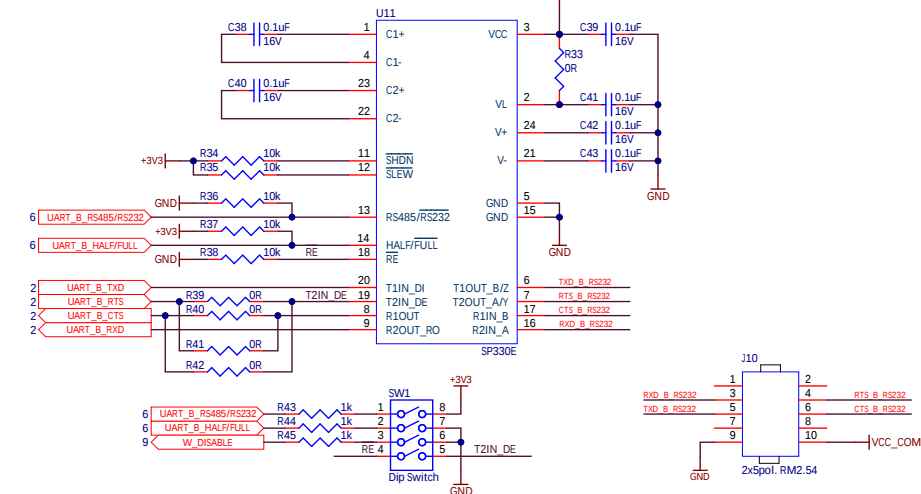
Size A3 Audio / SD-Card Rev 1.50

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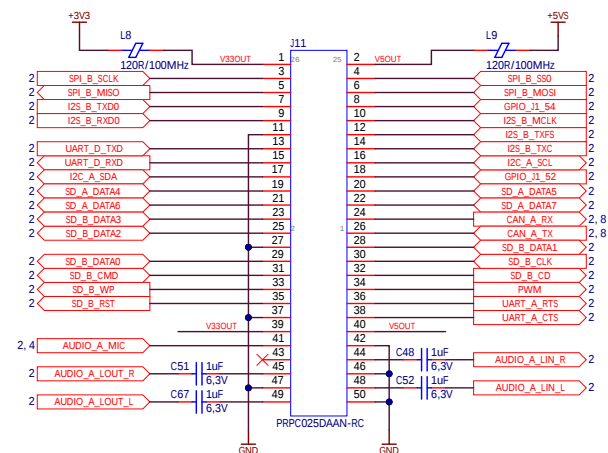
SERIAL A + C



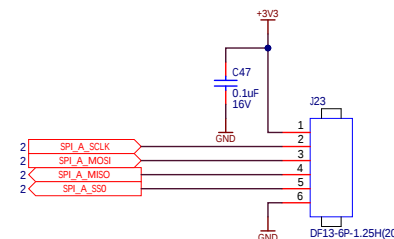
SERIAL B



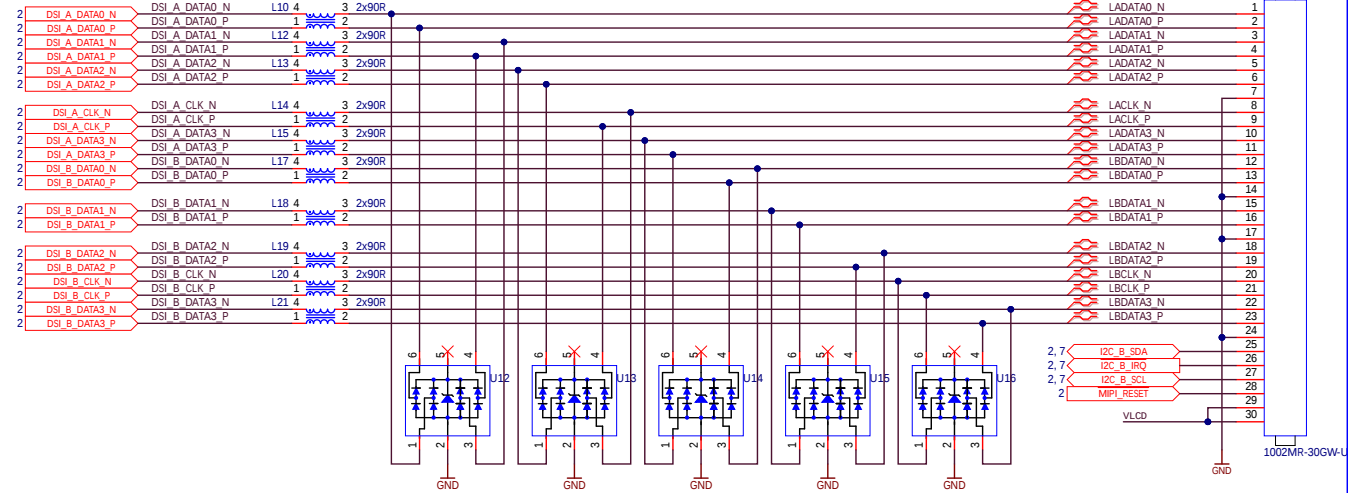
GPIO



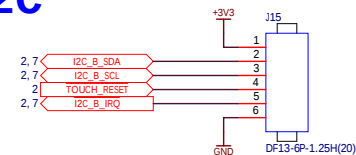
SPI A



C

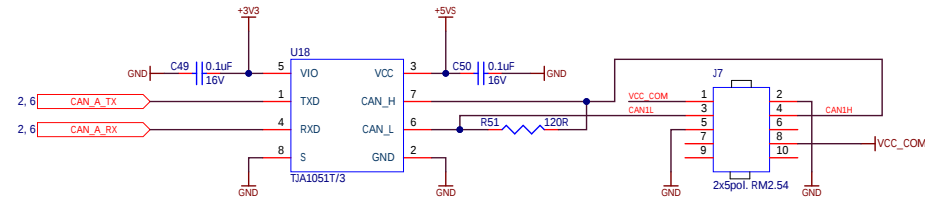


B

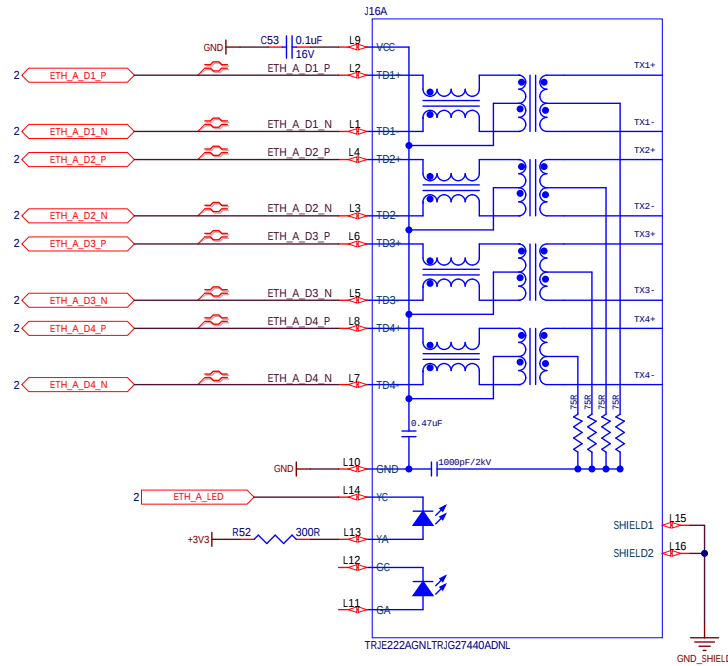


Size A3	LCD / CAM	Rev 1.50
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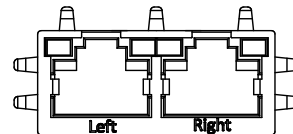
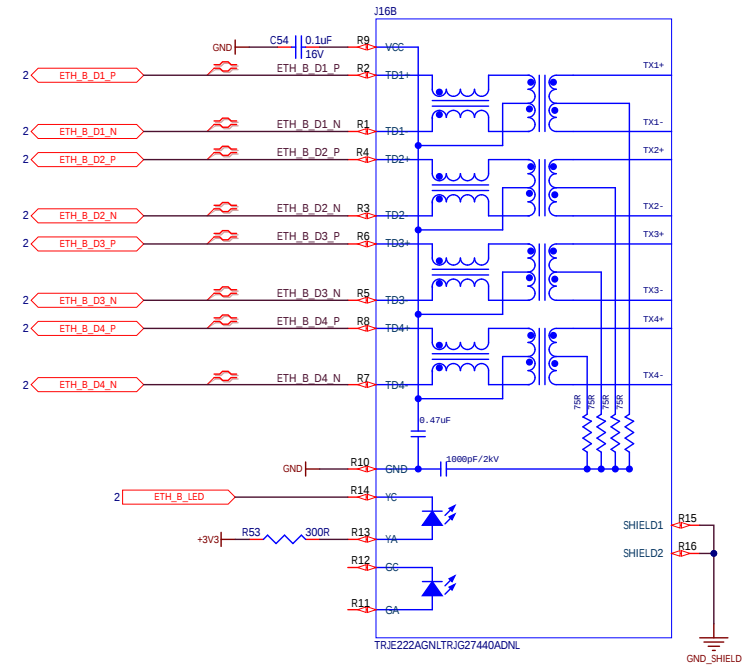
CAN



ETHERNET A (Left)



ETHERNET B (Right)



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PicoCoreBBDSt [No Variations]

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