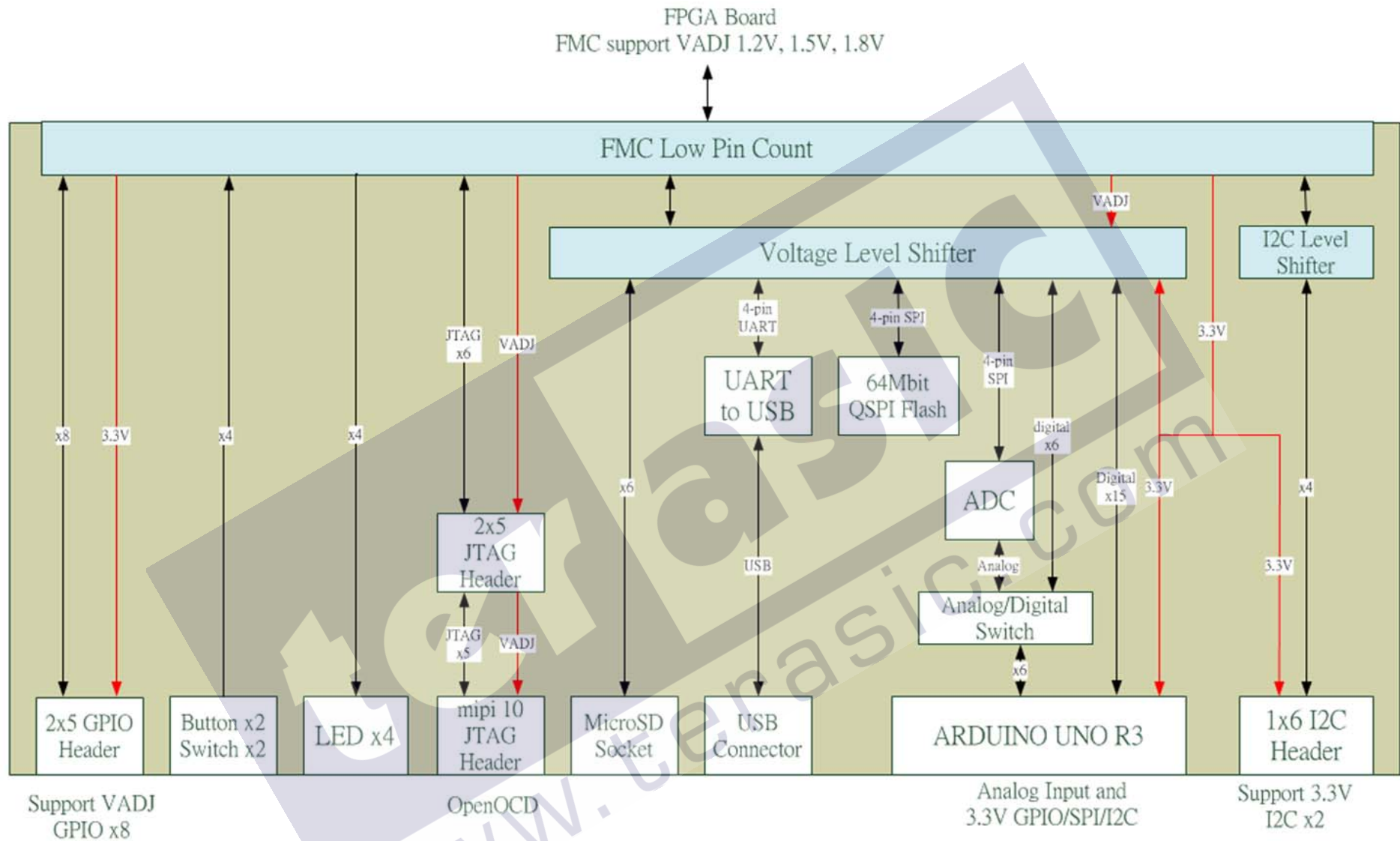
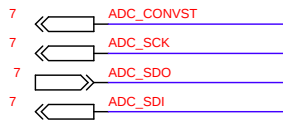


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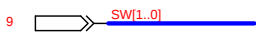
SoC FMC Daughter Card



ADC



SWITCH



KEY



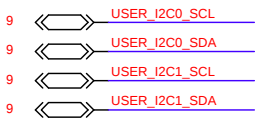
LED



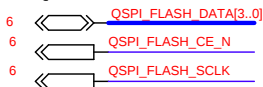
FMC GPIO



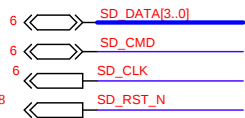
I2C Interface



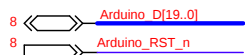
QSPI FLASH Interface



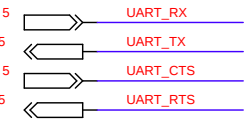
SD Card Interface



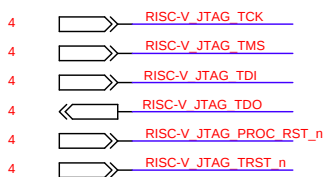
Arduino interface



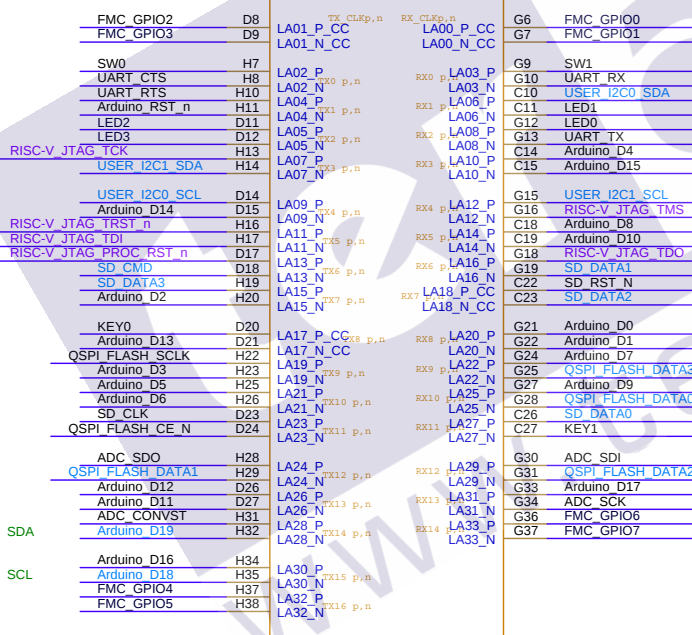
UART



RISC-V JTAG INTERFACE



J5A



FMC_Vita57_1_LPC

VCC3P3

VCC12

VCC3P3

R111

R112

FMC_JTAG_TDI

FMC_SDA

FMC_SCL

J5C

3P3VAUX

D40

D39

D36

D38

C35

C37

D1

D34

D33

TMS

D29

TCK

C31

C30

C34

D35

FMC_Vita57_1_LPC

J5B

C2

C3

D4

D5

FMC_Vita57_1_LPC

J5C

D32

D40

D39

D36

D38

C35

C37

D1

D34

D33

TMS

D29

TCK

C31

C30

C34

D35

FMC_Vita57_1_LPC

J5B

C2

C3

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D5

FMC_Vita57_1_LPC

J5C

D32

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C37

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TMS

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TCK

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FMC_Vita57_1_LPC

J5B

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FMC_Vita57_1_LPC

J5C

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TMS

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FMC_Vita57_1_LPC

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FMC_Vita57_1_LPC

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FMC_Vita57_1_LPC

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FMC_Vita57_1_LPC

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FMC_Vita57_1_LPC

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FMC_Vita57_1_LPC

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TCK

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FMC_Vita57_1_LPC

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FMC_Vita57_1_LPC

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TMS

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TCK

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FMC_Vita57_1_LPC

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FMC_Vita57_1_LPC

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TMS

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FMC_Vita57_1_LPC

J5B

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FMC_Vita57_1_LPC

J5C

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TMS

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TCK

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FMC_Vita57_1_LPC

J5B

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FMC_Vita57_1_LPC

J5C

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D38

C35

C37

D1

D34

D33

TMS

D29

TCK

C31

C30

C34

D35

FMC_Vita57_1_LPC

J5B

C2

C3

D4

D5

FMC_Vita57_1_LPC

J5C

D32

D40

D39

D36

D38

C35

C37

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D34

D33

TMS

D29

TCK

C31

C30

C34

D35

FMC_Vita57_1_LPC

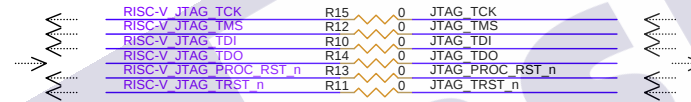
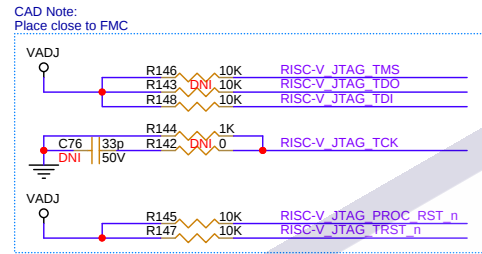
J5B

C2

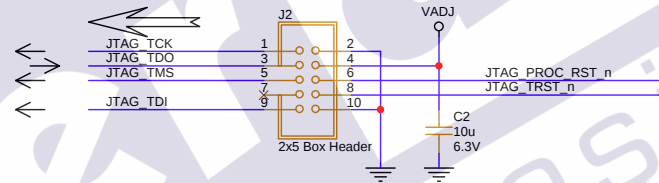
C3

RISC-V JTAG INTERFACE

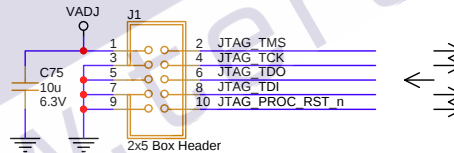
- 3 RISC-V_JTAG_TCK
- 3 RISC-V_JTAG_TMS
- 3 RISC-V_JTAG_TDI
- 3 RISC-V_JTAG_TDO
- 3 RISC-V_JTAG_PROC_RST_n
- 3 RISC-V_JTAG_TRST_n



Silk: "JTAG HEADER"



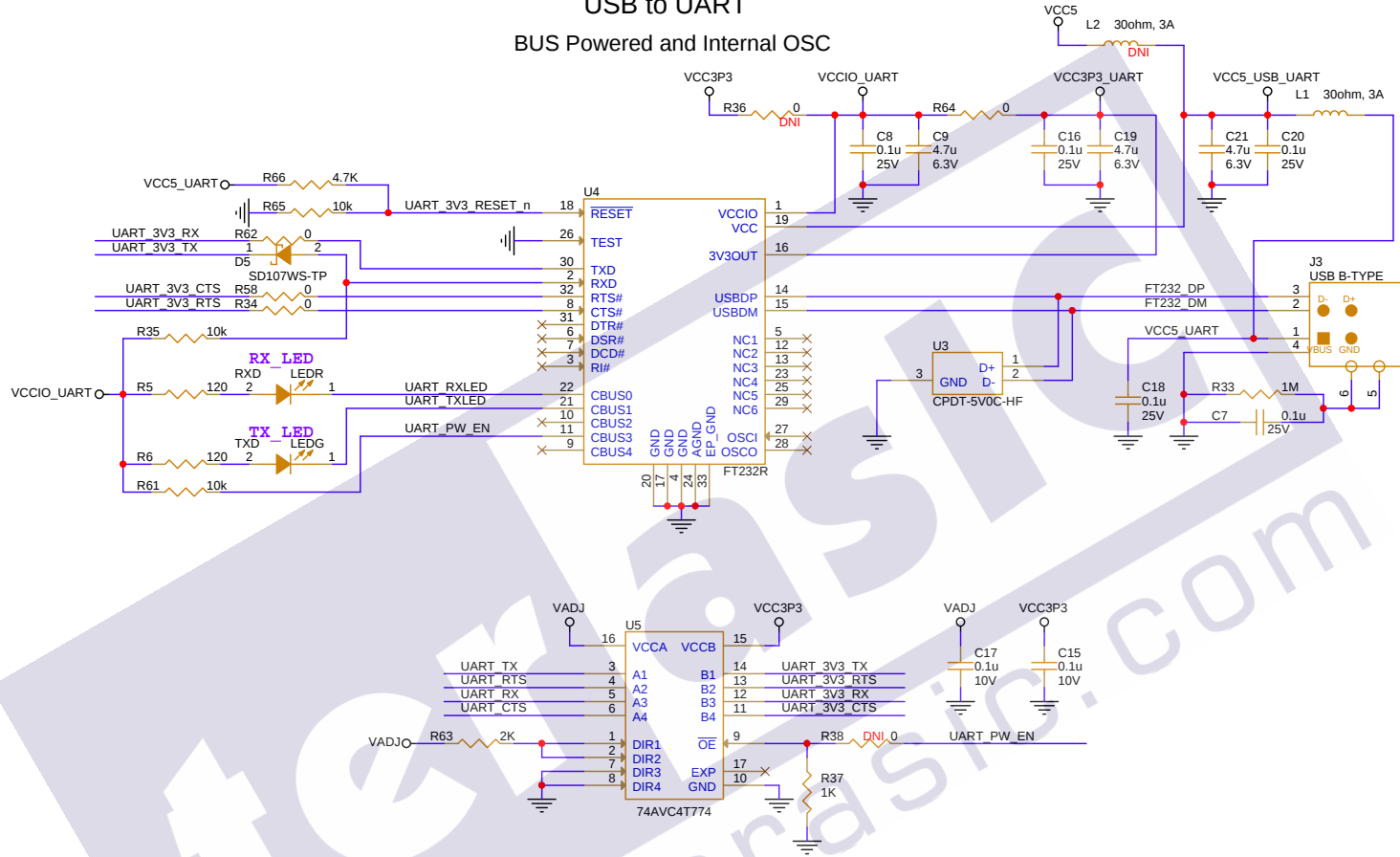
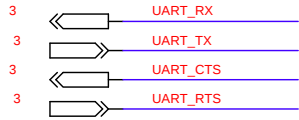
Silk: "MIPI-10"



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Title			
SoC FMC Daughter Card			
Size B	Document Number JTAG Chain		Rev A1
Date:	Thursday, March 09, 2023	Sheet	4 of 9

USB to UART BUS Powered and Internal OSC

UART



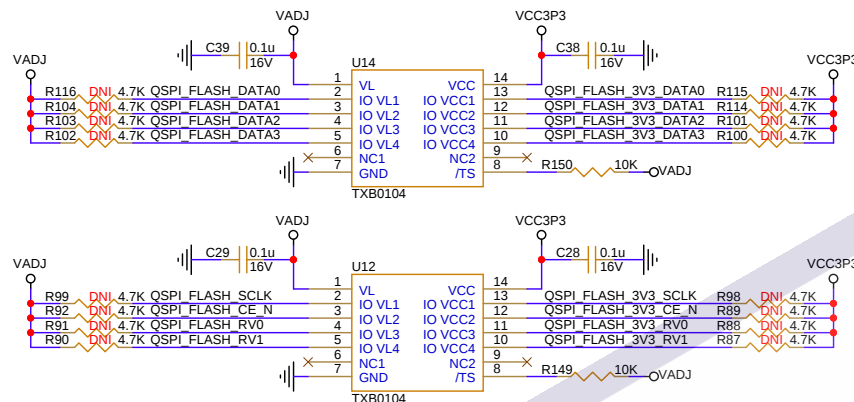
QSPI FLASH Interface

- QSPI_FLASH_DATA[3..0]
- QSPI_FLASH_CE_N
- QSPI_FLASH_SCLK

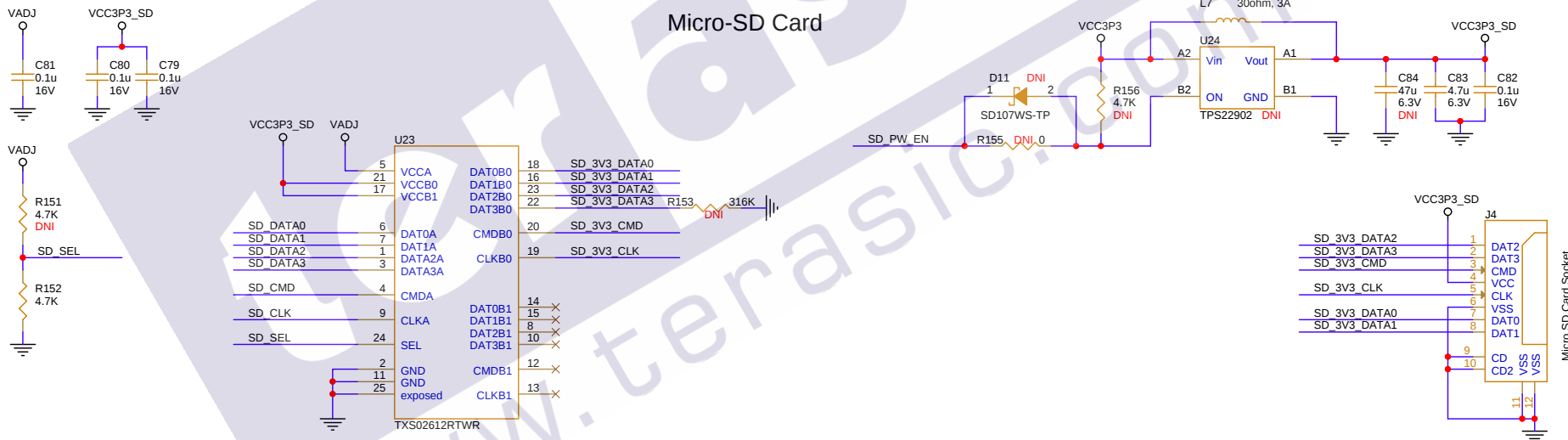
SD Card Interface

- SD_DATA[3..0]
- SD_CMD
- SD_CLK
- SD_PW_EN

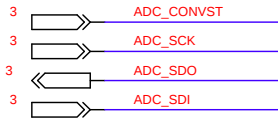
QSPI FLASH



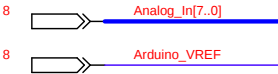
Micro-SD Card



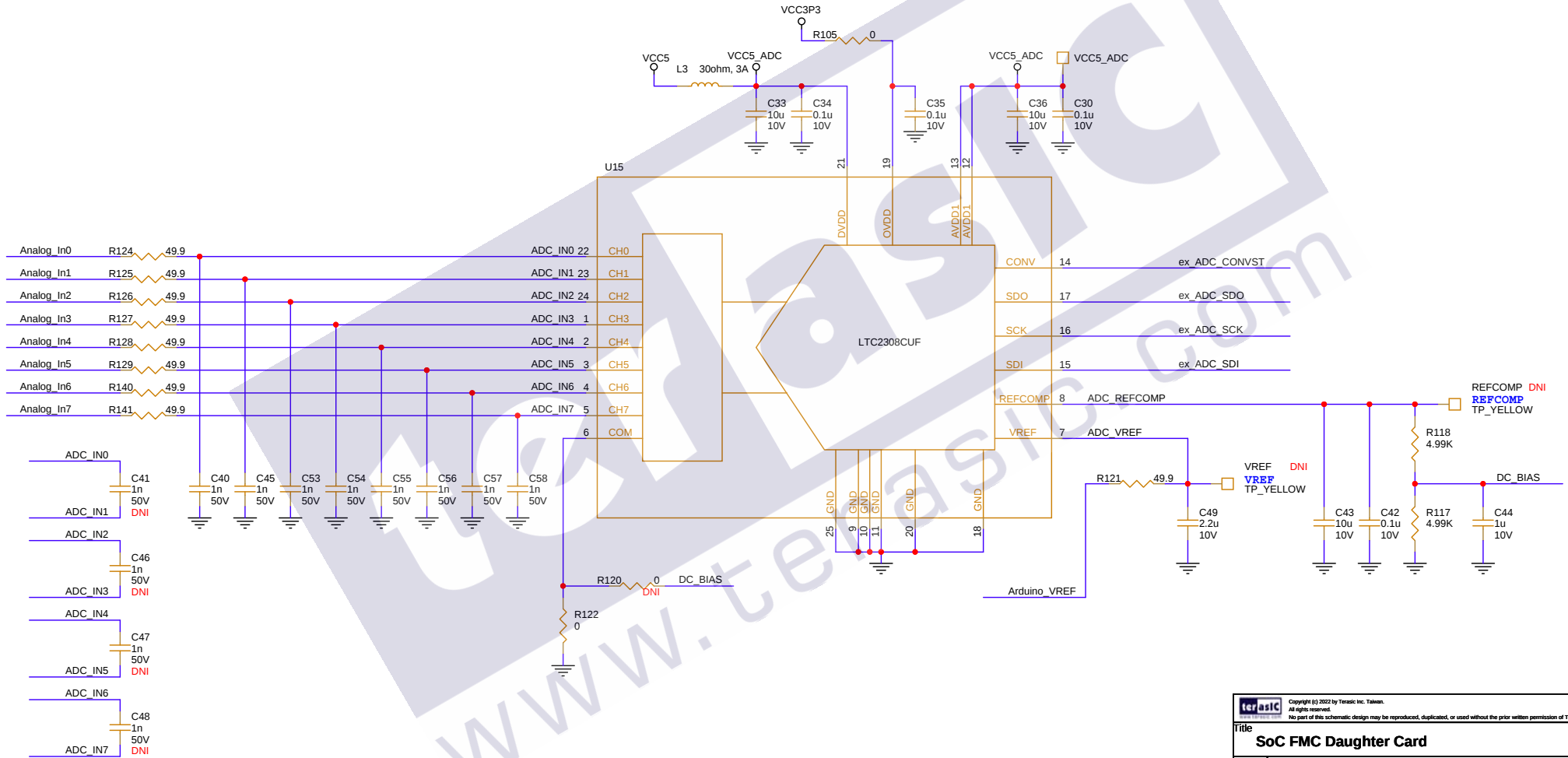
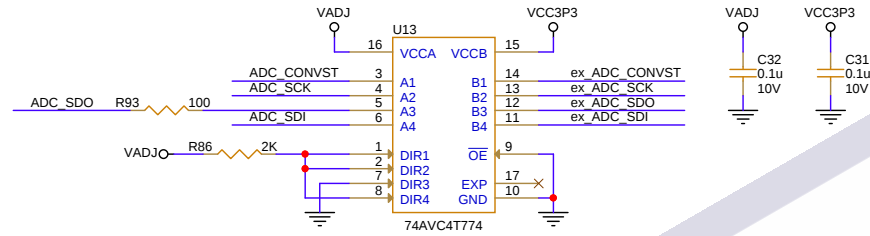
ADC



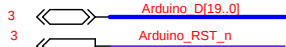
Analog input interface



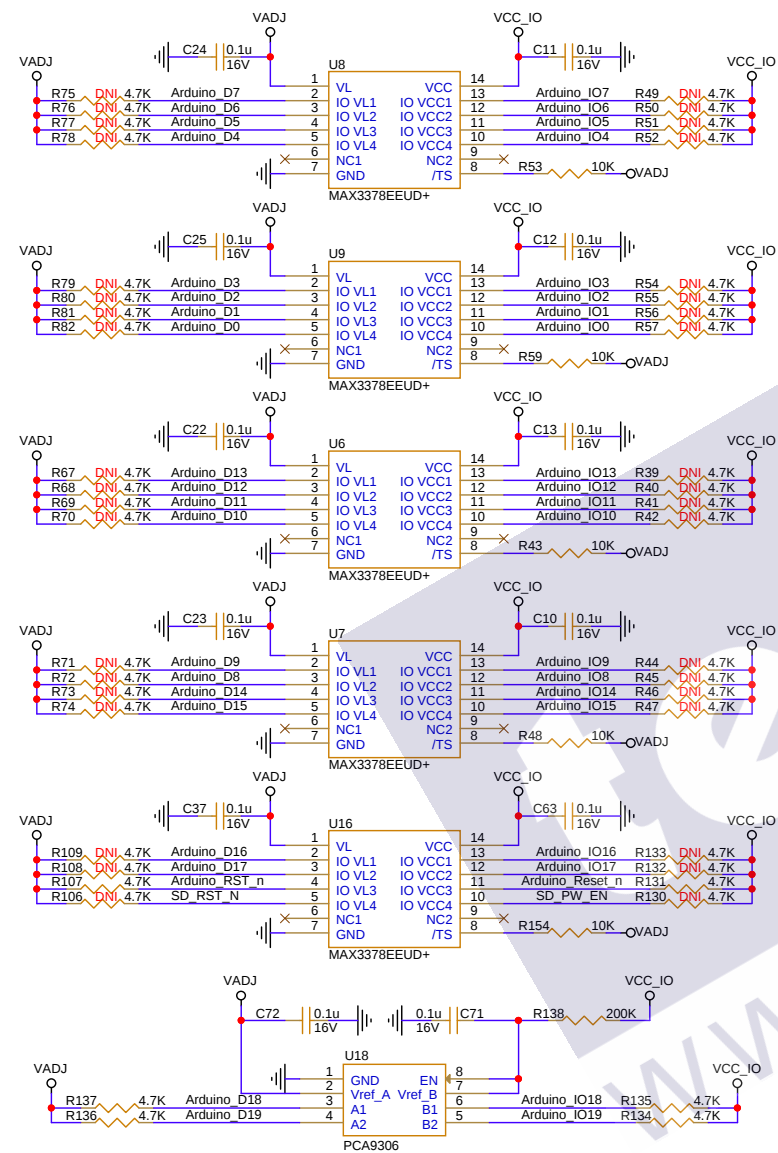
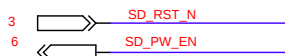
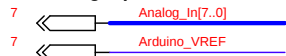
ADC



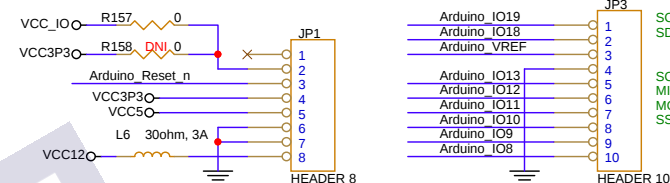
Arduino interface



Analog input interface



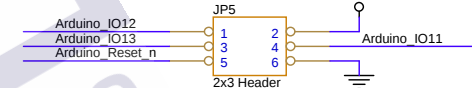
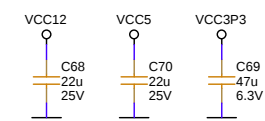
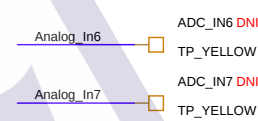
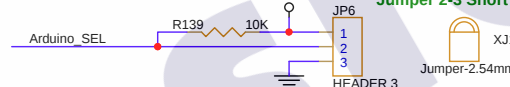
Arduino UNO Rev3



JP6 Analog / Digital Path select	Analog / Digital Path select
Open	Use Digital I/O
1-2 Short	Use Digital I/O
2-3 Short	Use Analog input

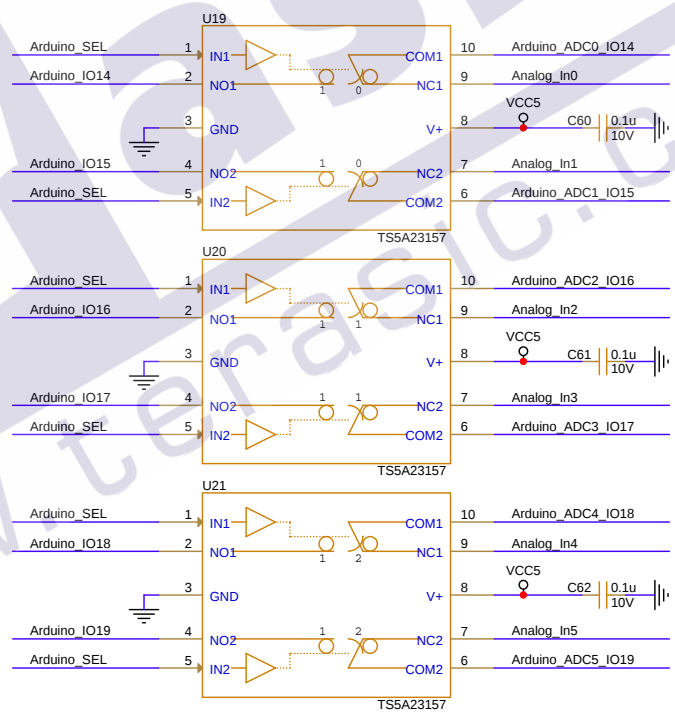
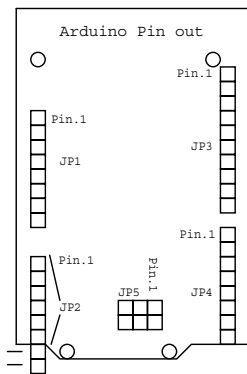
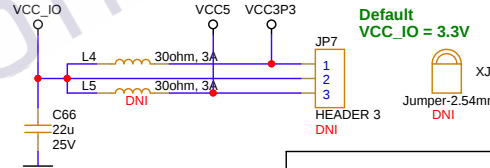
Silk: "Analog/Digital Select"

Default Jumper 2-3 Short



Silk: "Power Select"

Default VCC_IO = 3.3V



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Title SoC FMC Daughter Card		
Size B	Document Number Arduino Interface	Rev A1
Date: Thursday, March 09, 2023	Sheet 8 of 9	

User IO

SWITCH

SW[1..0]

KEY

KEY[1..0]

LED

LED[3..0]

FMC GPIO

FMC_GPIO[7..0]

I2C Interface

USER_I2C0_SCL

USER_I2C0_SDA

USER_I2C1_SCL

USER_I2C1_SDA