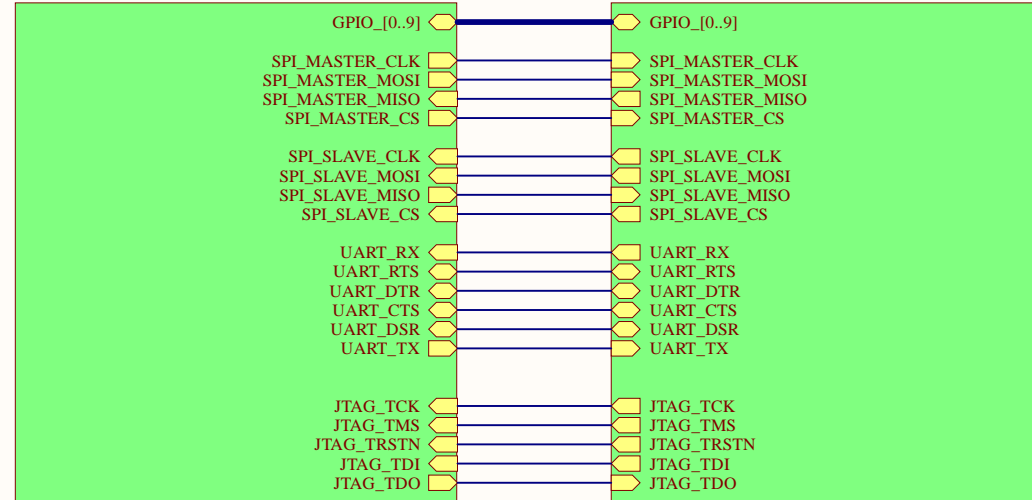


# PULPino Block Diagram

U\_SchematicPULPiniMCU  
SchematicPULPiniMCU.SchDoc



U\_SchematicPowerSupply  
SchematicPowerSupply.SchDoc



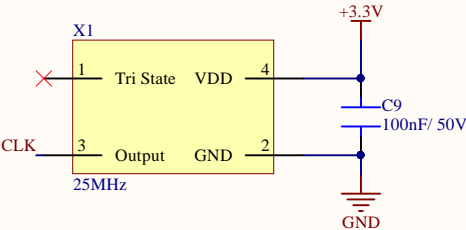
Title			
Size	Number		Revision
A4			
Date:	14.05.2020	Sheet	of
File:	C:\Users\...\TopSheet.SchDoc	Drawn By:	

# PULPino MCU

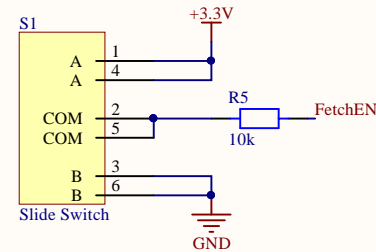
## PORTS

GPIO\_[0..9] 

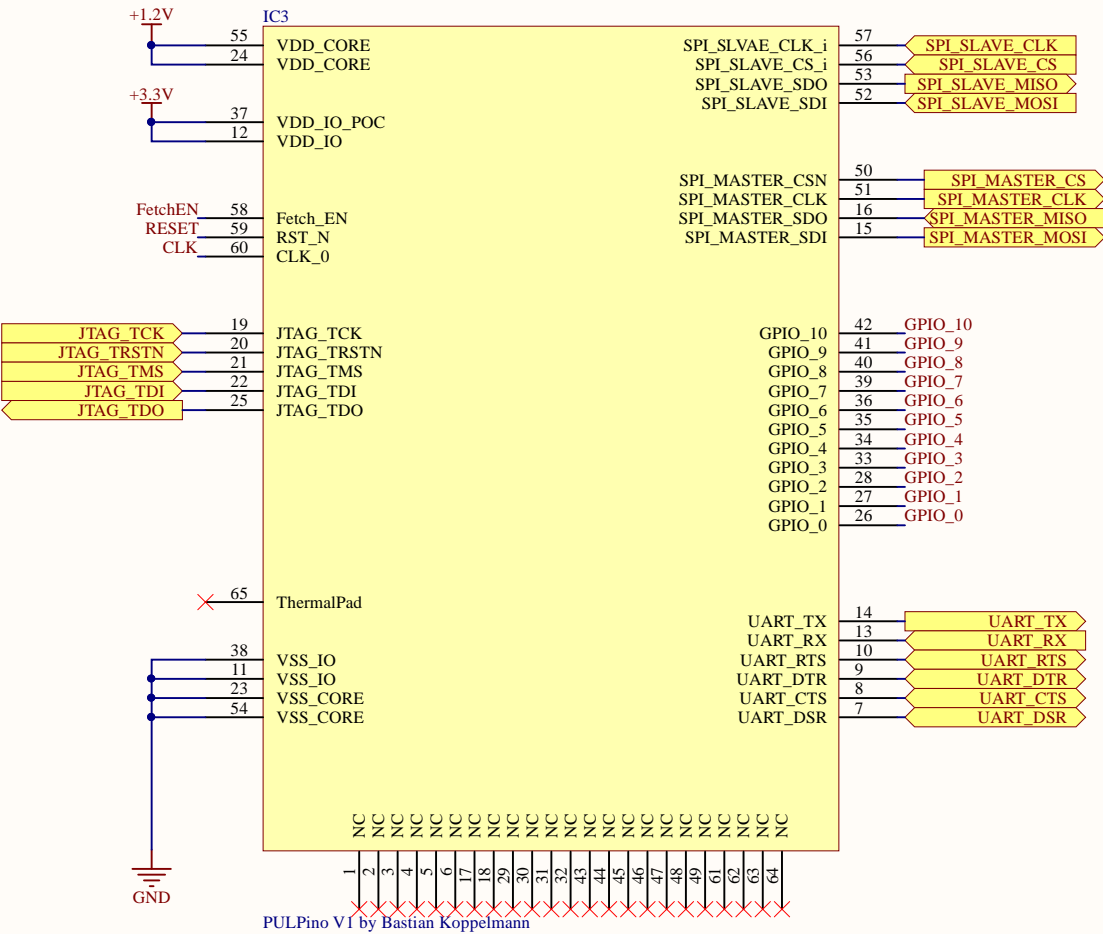
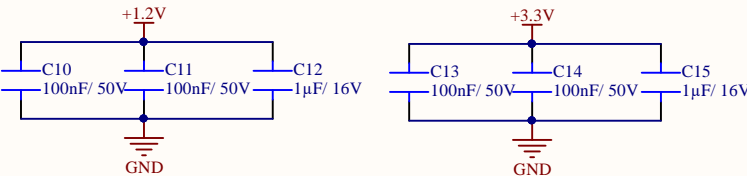
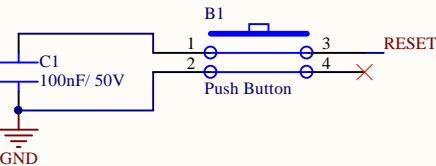
## Clock



## Fetch Enable



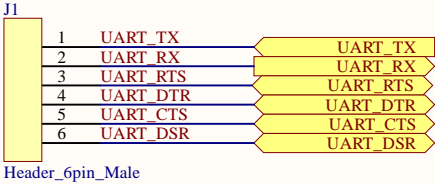
## Reset Button



Title		
Size	Number	Revision
A4		
Date:	14.05.2020	Sheet of
File:	C:\Users\...\SchematicPULPinoMCU.SchDDrawn By:	

# CONNECTORS

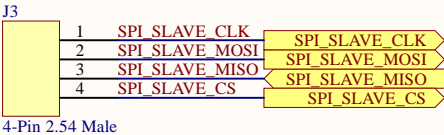
## UART Connector



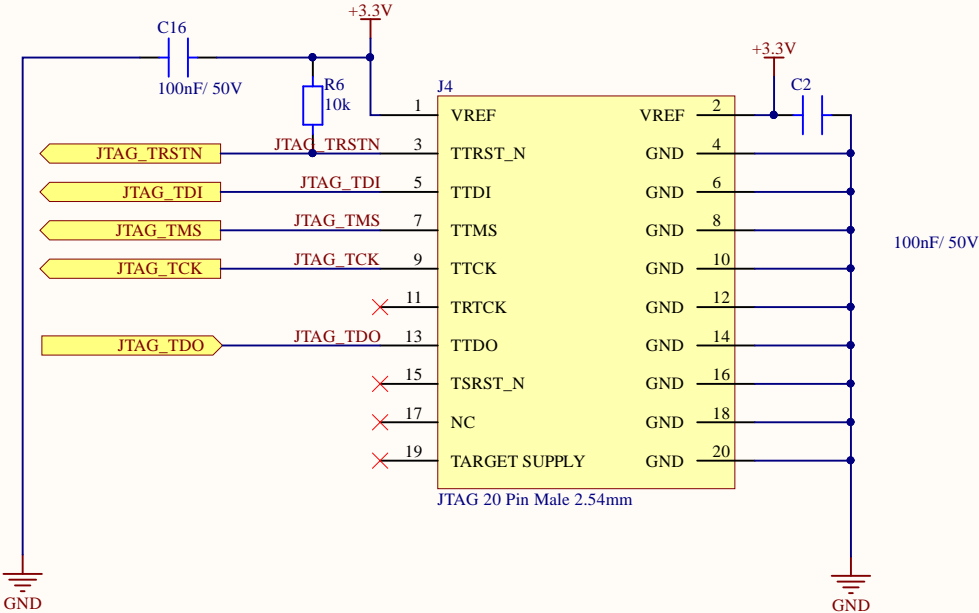
## SPI-Master Connector



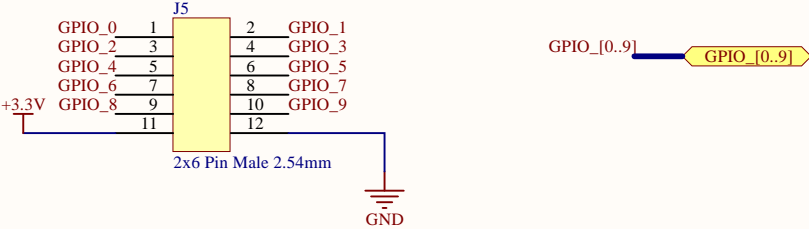
## SPI-Slave Connector



## JTAG Connector



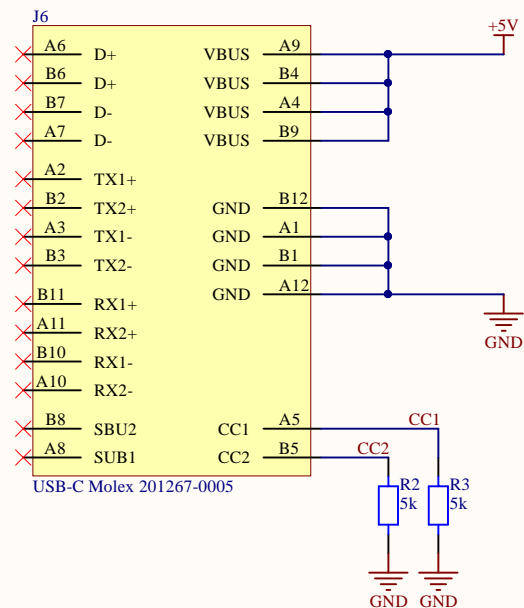
## GPIO Connector



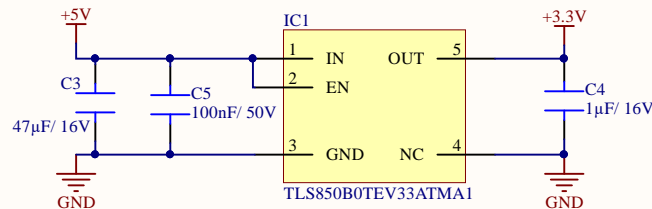
Title		
Size	Number	Revision
A4		
Date:	14.05.2020	Sheet of
File:	C:\Users\...\SchematicPorts.SchDoc	Drawn By:

# POWER SUPPLY

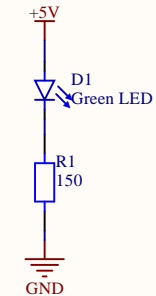
## USB-C Connector



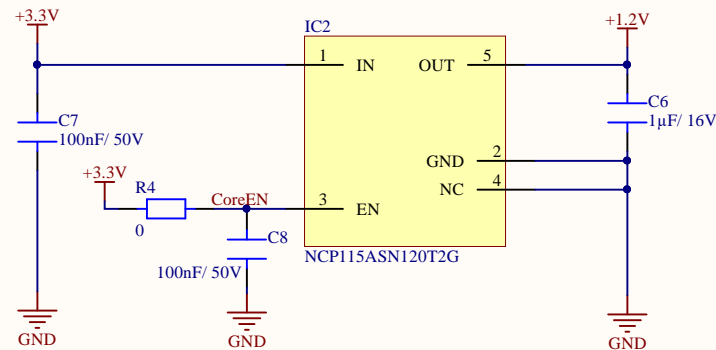
## Linear Voltage Regulator 3.3V



## LED Power Indicator



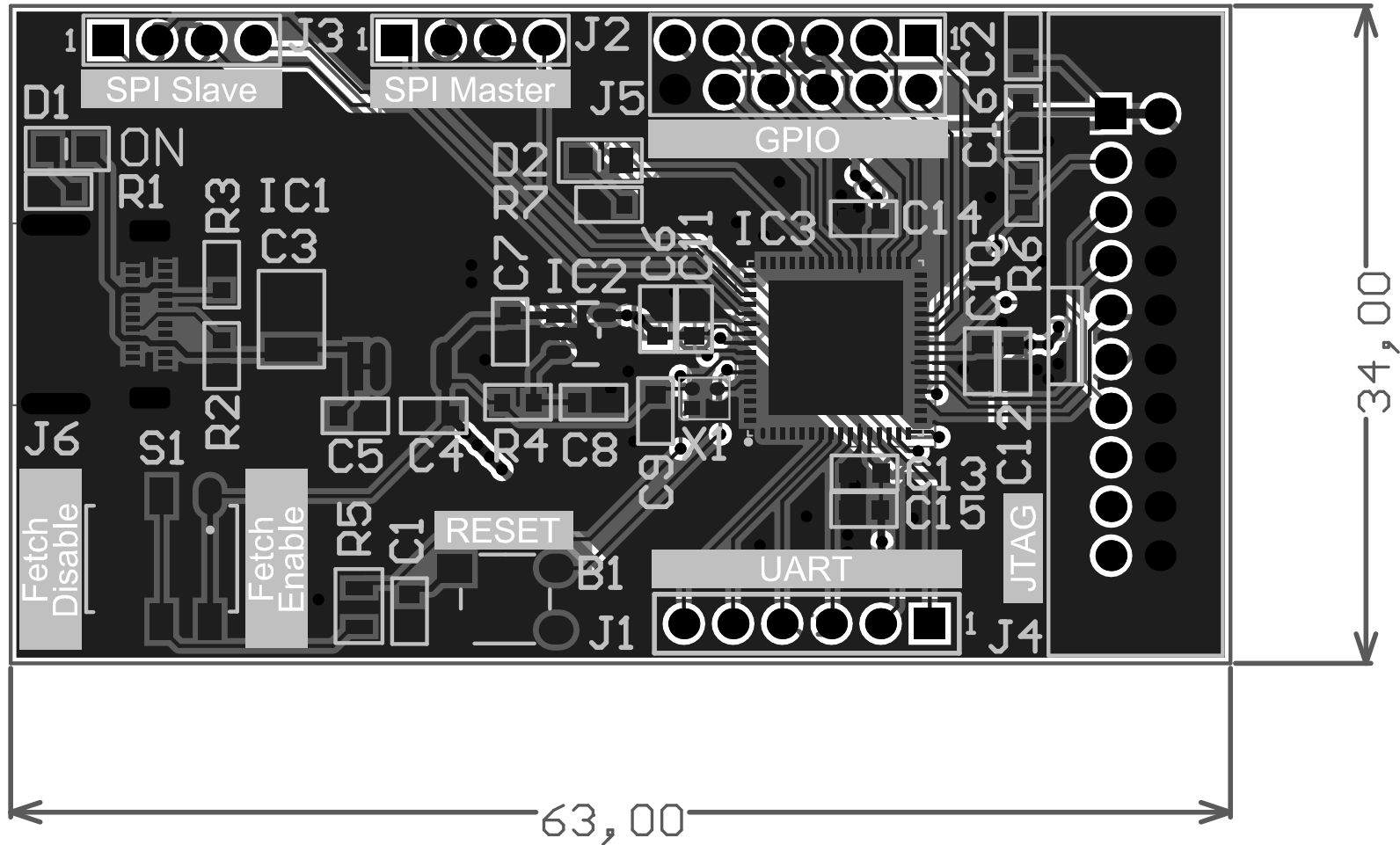
## Linear Voltage Regulator 1.2V



With the RC element a time delay for switching on the linear voltage regulator can be set. If not needed use R = 0Ω and do not solder the capacitor C?.

Title		
Size	Number	Revision
A4		
Date:	14.05.2020	Sheet of
File:	C:\Users\...\SchematicPowerSupply.SchDoc	
Drawn By:		

# Assembly TOP of PULPino Board V1.0



Comment	Description	Designator	Footprint	LibRef	Quantity
Push Button	PTS647SM50SMTR2L	B1	PUSH Switch	Push Button PTS647S	1
100nF/50V	C0603/C0805	C1, C2, C5, C7, C8, C	C0603	C 100nF/ 50V	11
47µF/16V	C1210	C3	C1210	C 47µF/ 16V	1
1µF/16V	C0603/C0805	C4, C6, C12, C15	C0603	C 1µF/ 16V	4
Green LED	StatusLED	D1, D2	LED_0805	LED 0805	2
TLS850B0TEV33ATM	Input 3-40V, Output 3	IC1	TO-252-5	TLS850B0TEV33ATM	1
NCP115ASN120T2G	Input 1.7V-5.5V, Outp	IC2	TSOP-5	NCP115ASN120T2G	1
PULPino V1 by Bastian	Version 1 PULPino by	IC3	MQFN 64-Lead 9mm	MCU PULPino V1 QFN	1
Header_6pin_Male		J1	Header_6pin_male	Header_6pin_Male	1
4-Pin 2.54 Male		J2, J3	DIP4 4X1 Pitch 2.54m	Molex 90120-0124 1x	2
JTAG 20 Pin Male 2.54	JTAG 20 Pin Male 2.54	J4	JTAG 20-Pin	JTAG 20-Pin 2.54 AR	1
2x6 Pin Male 2.54mm	2x6 Pin Male 2.54mm	J5	DIP12 2X6 Pitch 2.54r	Molex 90131-1086 2x	1
USB-C Molex 201267-0005		J6	USB-C Molex 2012670	USB-C Molex 201267-	1
150	0603/0805	R1	R0603	RES_150	1
5k	0603/0805	R2, R3	R0603	RES_5k	2
0	0603/0805	R4	R0603	RES_0	1
10k	0805	R5	R0805	RES_10k	1
10k	0805	R6	R0603	RES_10k	1
100	0603/0805	R7	R0603	RES_100	1
Slide Switch	Slide Switch, WE 4524	S1	Slide Switch WE 4524	Slide Switch WE 4524	1
25MHz	Oscillator 25MHz	X1	TCXO Oscillators ECS-	ECS-TXO-2016-33-25	1