

12345678

DEVKIT VISAO

Variant: SPI FLASH

06/05/2025

Version P1

RELEASED 17-AUG-2022

Page	Index	Page	Index	Page	Index	Page	Index
1	COVER PAGE	11		21		31	
2	BLOCK DIAGRAM	12		22		32	
3	SOFTEX-BUTTONS-AND-SPI	13		23		33	
4	SOFTEX-USB-AND-GPIO	14		24		34	
5	REVISION HISTORY	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational
design notes.

DESIGN NOTE:
Example text for cautionary
design notes.

DESIGN NOTE:
Example text for debug notes.

DESIGN NOTE:
Example text for critical
design notes.

LAYOUT NOTE:
Example text for critical
layout guidelines.

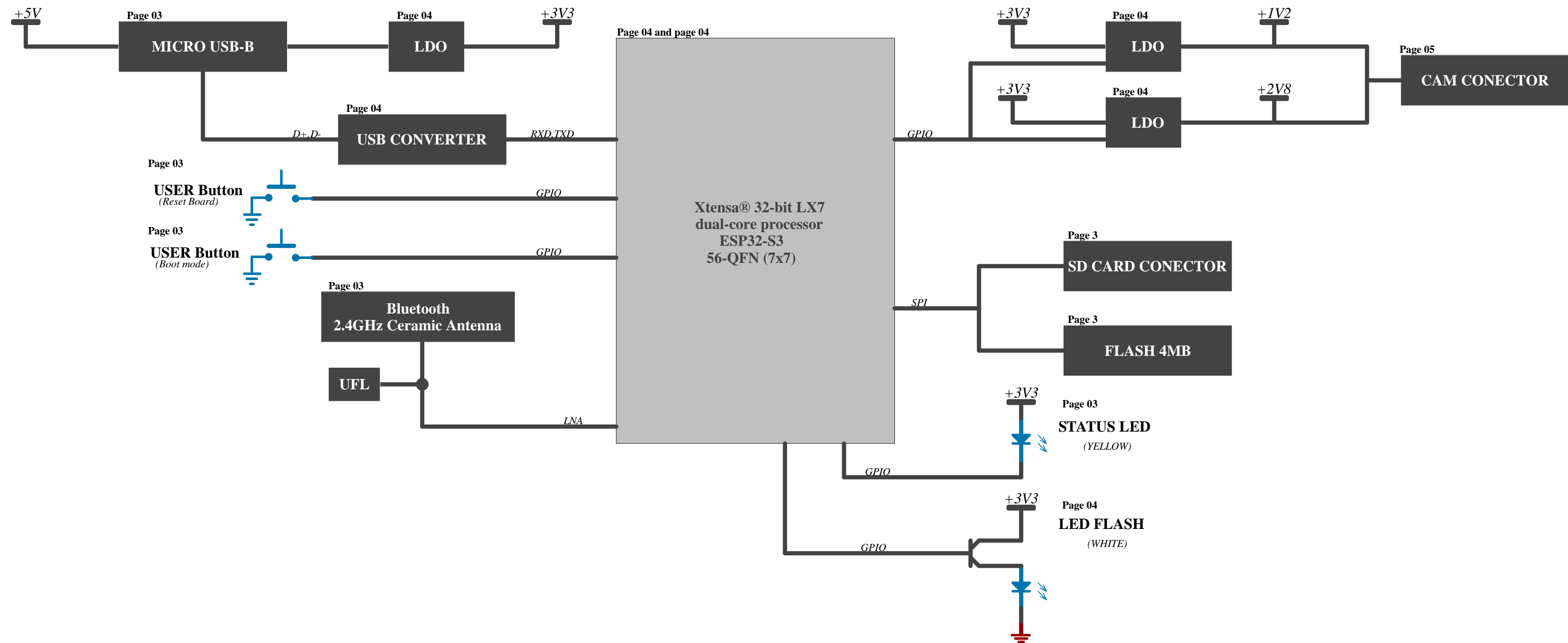
Cannot open file C:\Users\Estab\Down

	UFAL	https://softex.br/		
	Title:	DEVKIT VISAO		
Variants:	SPI FLASH			
Page Contents:	[01] - COVER PAGE.SchDoc			
Revision: P1	Designed by:	Victor Holanda	Checked by:	Alex Batista
Release Date:	06/05/2025		Sheet:	1 of 6

12345678

DEVKIT VISAOP1

(Block Diagram)

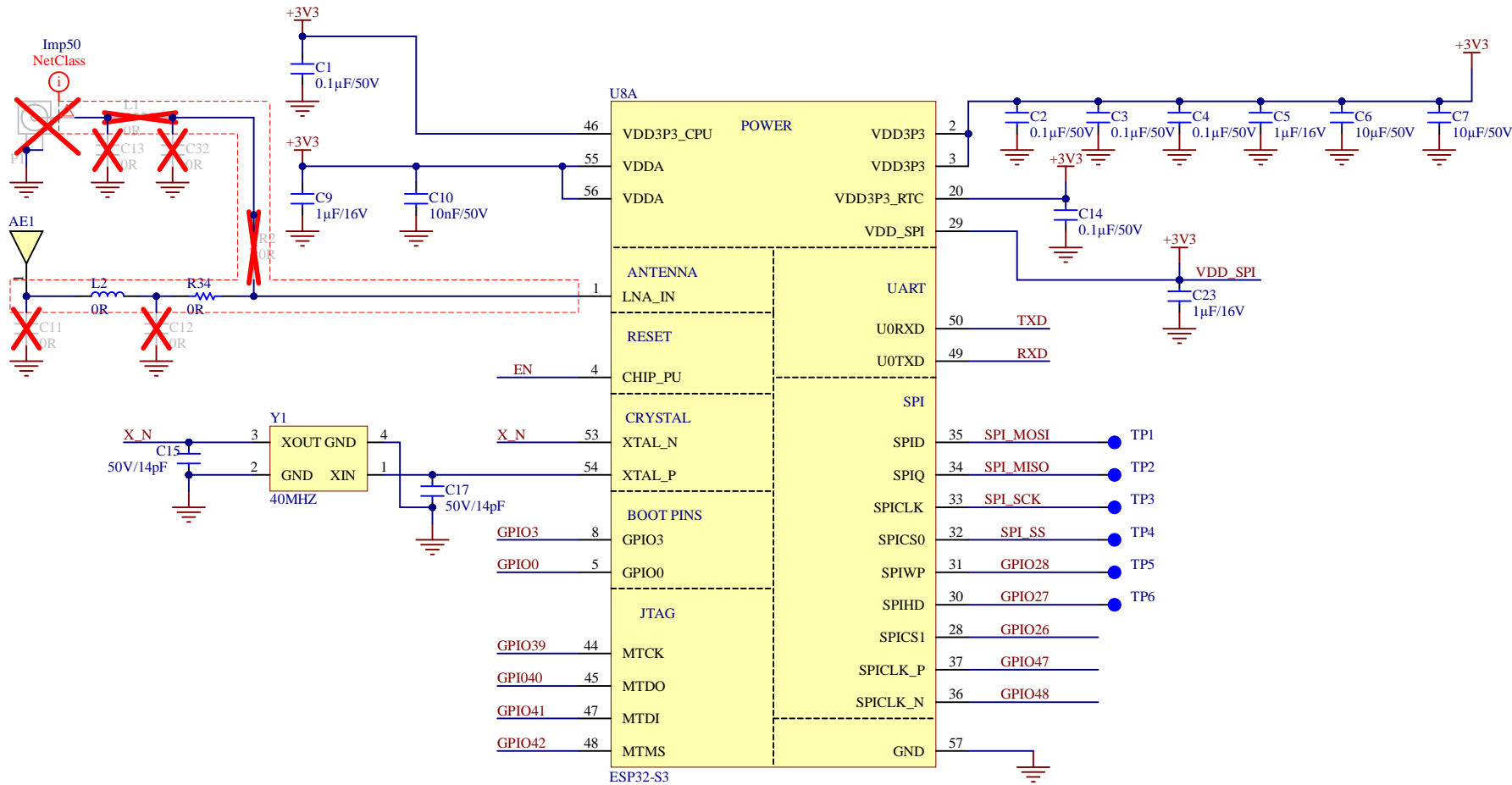


Cannot open file C:\Users\Estab\Down	UFAL	https://sofex.br/
	Title:	DEVKIT VISAOP1
Variants:	SPI FLASH	
Page Contents:	[02] - BLOCK DIAGRAM.SchDoc	
Revision: P1	Designed by: Victor Holanda	Checked by: Alex Batista
Release Date: 06/05/2025	Sheet: 2	of 6

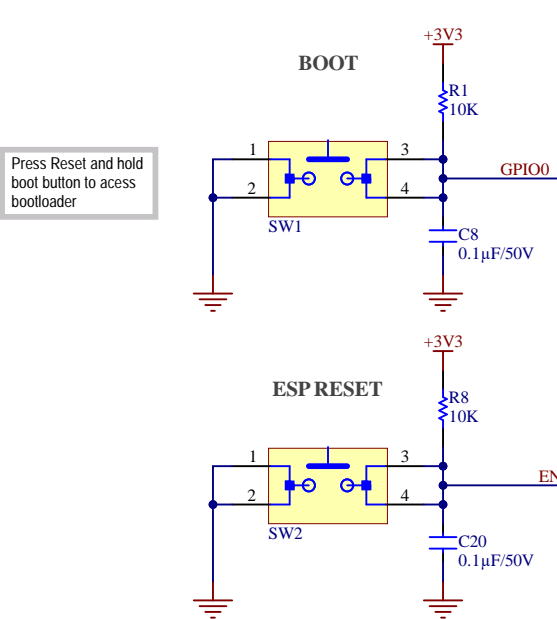
SOFTEX BUTTONS AND SPI



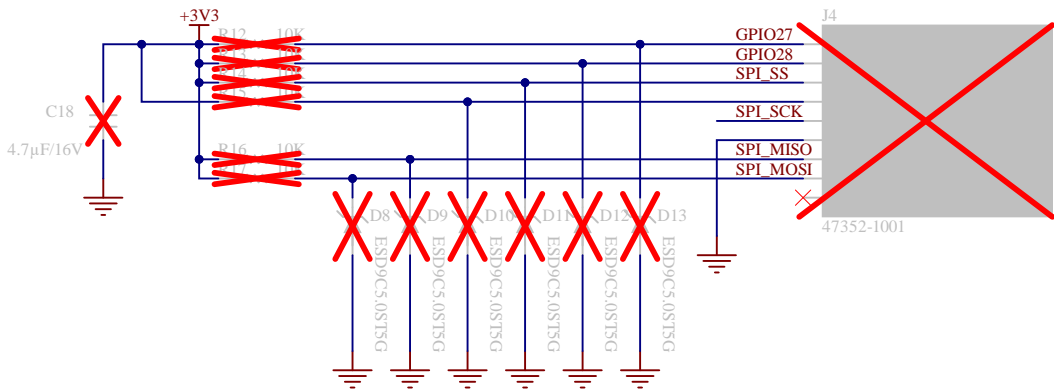
ESP32-S3



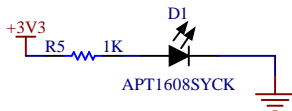
BUTTONS



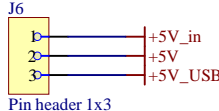
SD CARD



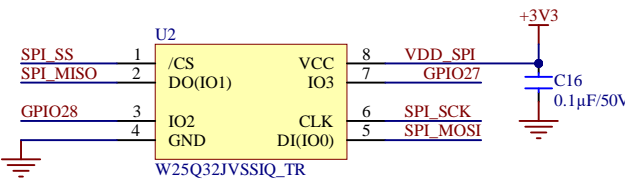
LED POWER



5V POWER SELECTOR



SPI FLASH

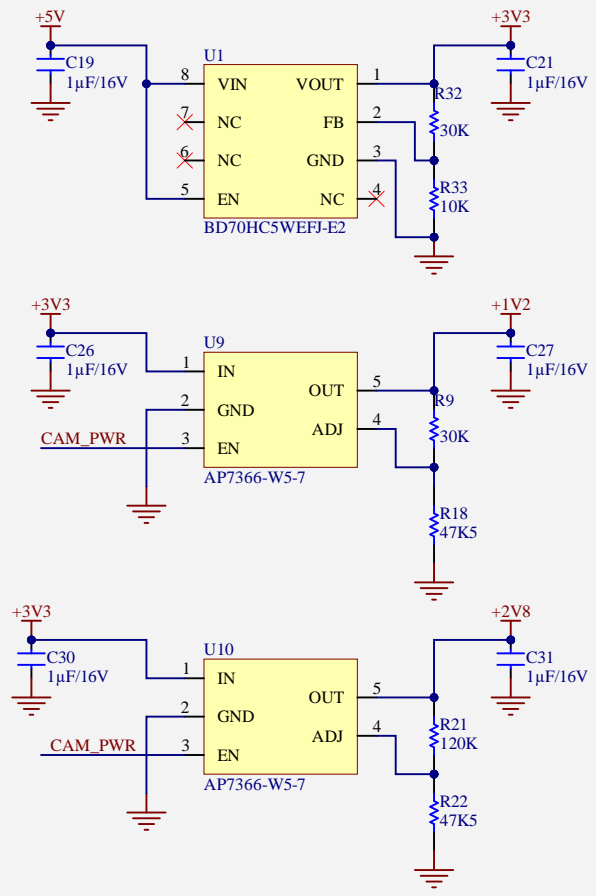


Cannot open file C:\Users\Estab\Down	UFAL	https://softex.br/		
	Title:	DEVKIT VISAO		
Variants: SPI FLASH				
Page Contents: [03] - BUTTONS-AND-SPLSchDoc				
Revision: P1	Designed by:	Victor Holanda	Checked by:	Alex Batista
Release Date:	06/05/2025	Sheet:	3	of 6

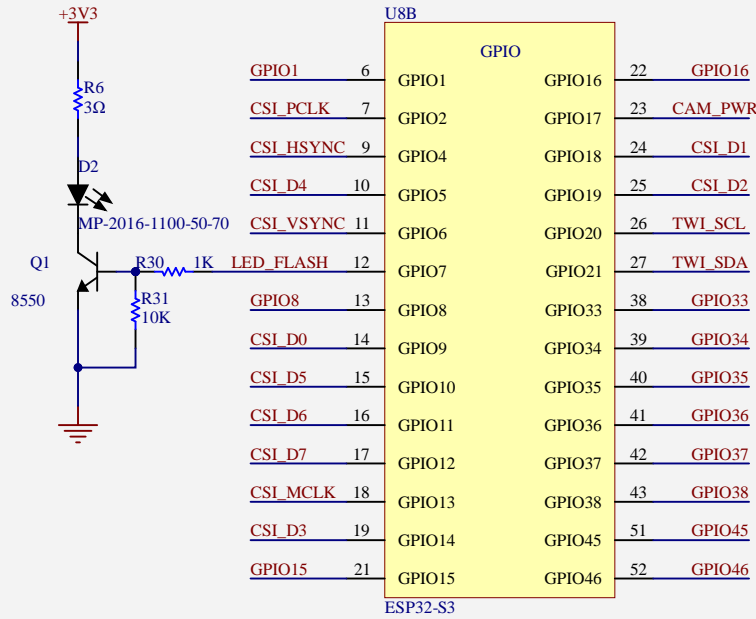
SOFTEX VISION USB AND GPIOs



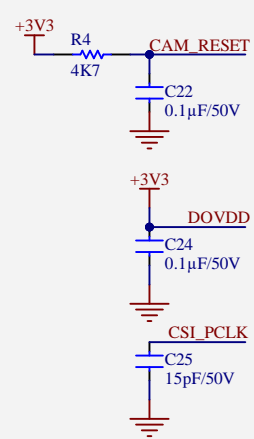
LDO



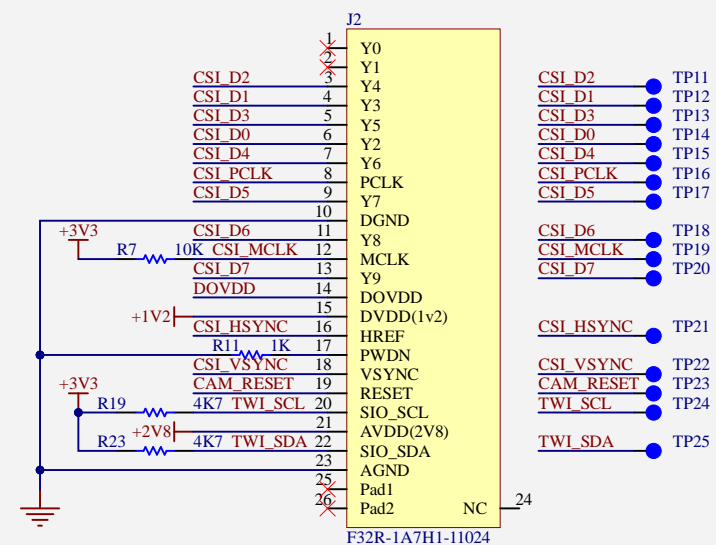
ESP32-S3



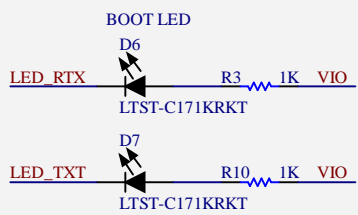
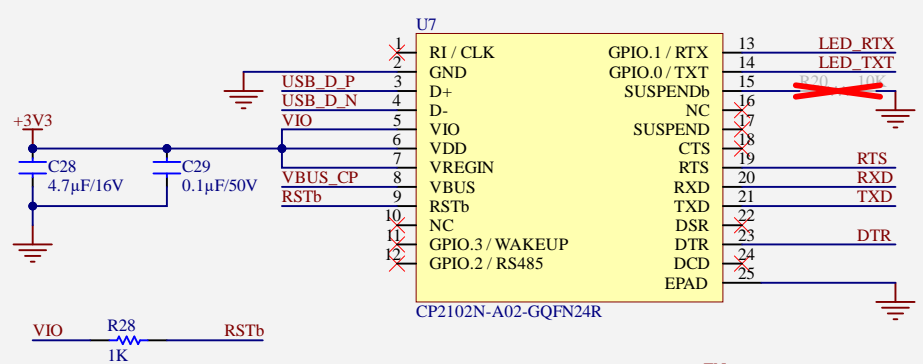
CAM_OV2640



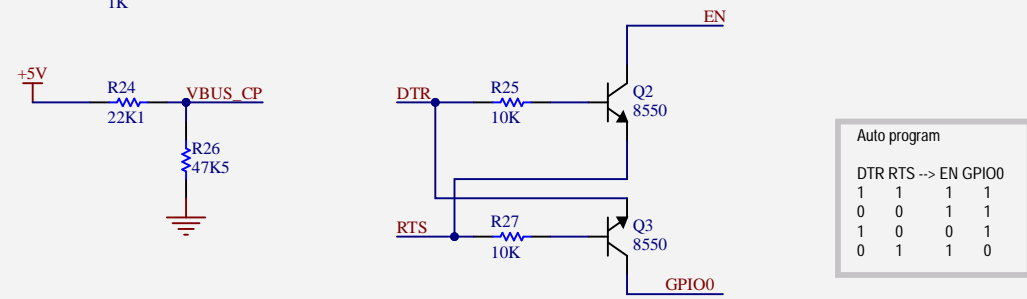
CAM CONNECTOR



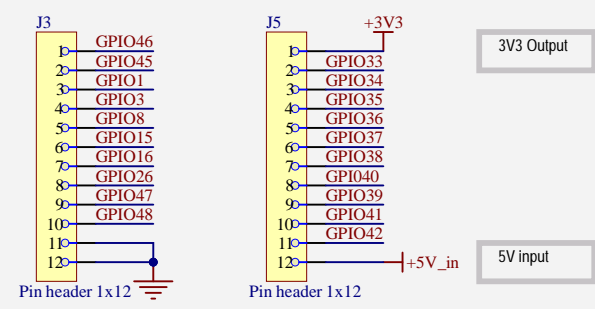
USB TO UART



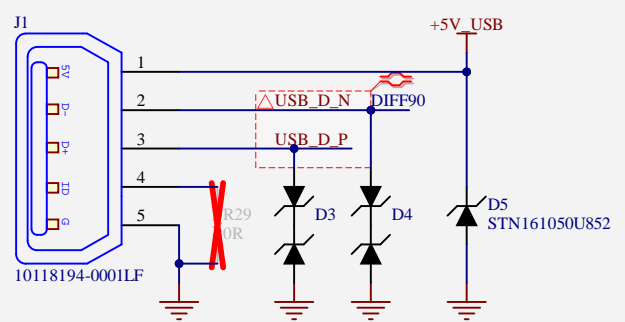
GPIOs



Auto program			
DTR RTS --> EN GPIO0			
1	1	1	1
0	0	1	1
1	0	0	1
0	1	1	0



USB




Cannot open file C:\Users\Estab\Down	UFAL	https://softex.br/
	Title:	DEVKIT VISAO
Variants: SPI FLASH		
Page Contents: [04] - USB-AND-GPIOS.SchDoc		
Revision: P1	Designed by: Victor Holanda	Checked by: Alex Batista
Release Date: 06/05/2025	Sheet: 4	of 6

REVISION HISTORY



SCHEMATIC

PCB

	UFAL https://softex.br/	
	Title:	DEVKIT VISAO
Variants: SPI FLASH		
Page Contents: [05] - REVISION HISTORY.SchDoc		
Revision: P1	Designed by: Victor Holanda	Checked by: Alex Batista
Release Date: 06/05/2025	Sheet: 5	of 6

DEVKIT VISAO - SCHEMATIC

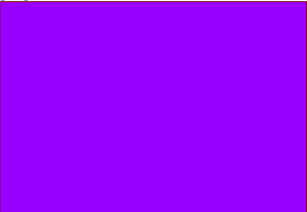


Cannot open file
C:\Users\Estab\Downloads\Brasão_Ufal.png. File does not exist.

Designator
[01] - COVER PAGE.SchDoc



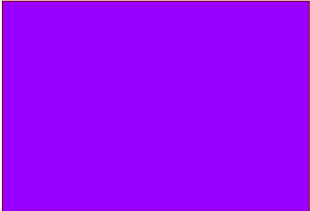
Designator
[02] - BLOCK DIAGRAM.SchDoc



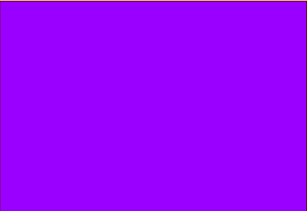
Designator
[03] - BUTTONS-AND-SPI.SchDoc



Designator
[04] - USB-AND-GPIOS.SchDoc



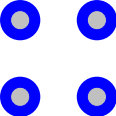
Designator
[05] - REVISION HISTORY.SchDoc



FIDUCIALS



TOOLING HOLES



Cannot open file C:\Users\Estab\Down	UFAL		https://softex.br/	
	Title:	DEVKIT VISAO		
Variants: SPI FLASH				
Page Contents:		devkit-visao.SchDoc		
Revision: P1	Designed by:	Victor Holanda	Checked by:	Alex Batista
Release Date:	06/05/2025		Sheet:	6 of 6