USB IO Extender

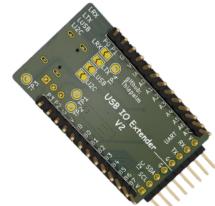
Variant: No variant

2025-03-25 Rev 2

Page	Index	Page	Index	Page	Index	Page	Index	
• • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • • • • • • • • • • • • • • • • •	
1	Cover Page	11		21		31		
2	Block Diagram	12		22		32		В
3	Project Architecture	13		23		33		
4	Board	14		24		34		
5	Revision History	15		25		35		F
6		16		6′		36		
7		17				37		
8		18				38		c
9		19		25		39		
10		20		30		40		



BOTTOM VIEW



Add a comment here

NOTES

Not fitted components are marked as



DRAFT - Very early stage of schematic, ignore details.

PRELIMINARY - Close to final schematic.

CHECKED - There shouldn't be any mistakes. Contact the engineer if you find any.

RELEASED - A board with this schematic has been sent to production.

No variant 2025-03-25

Varlant: thiago.palmieri@adastra.aleeas.com Board Name: Project Name: **USB IO Extender USB IO Extender** Sheet Title: File Name: Designer: Date: Cover Page IOExtender.kicad_sch Thiago Palmieri Last Modified Date **A3** of 5

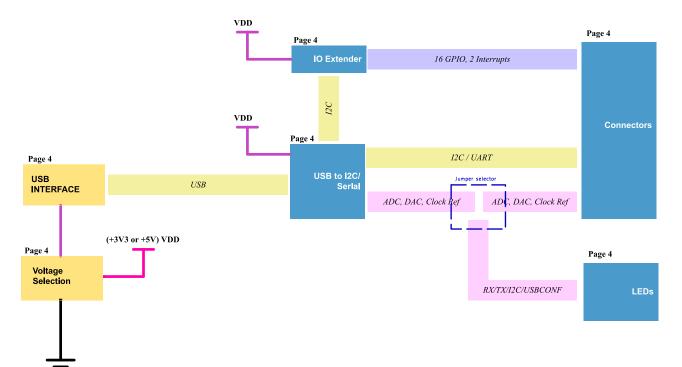
DESIGN CONSIDERATIONS

DESIGN NOTE: Example text for informational design DESIGN NOTE: Example text for debug notes.

DESIGN NOTE: Example text for cautionary design Example text for critical design notes.

LAYOUT NOTE: Example text for critical layout

[2] Block Diagram

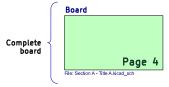


Target specifications:

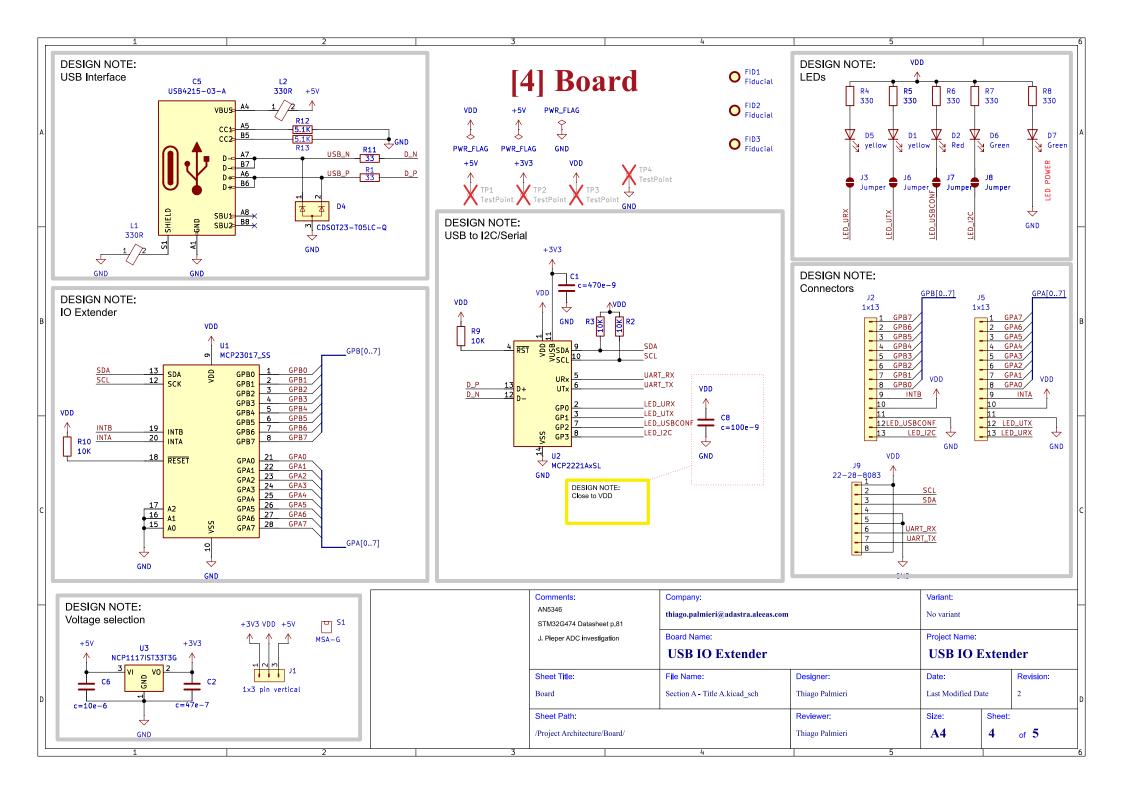
Input voltage:	5V USB
Board Layers	2

Comments:	Company: Variant:						
	Board Name: P			No variant Project Name: USB IO Extender			
Sheet Title:	File Name:	Designer:		Date:		Revision:	
Block Diagram	Block Diagram.kicad_sch	Thiago Palmieri		Last Modified Date 2		2	
Sheet Path:	-	Reviewer: Thiago Palmieri		Size: Sheet:			
/Block Diagram/				A3	2	of 5	
		7			-		

[3] Project Architecture



Comments:	Company:	Company:			Varlant:			
	thiago.palmieri@adastra.aleeas.com		No variant	No variant				
Board Name: USB IO Extender			Project Name: USB IO Extender		der			
OL CHILL								
Sheet Title:	File Name:	Designer:	Date:		Revision:			
Project Architecture	Project Architecture.kicad_sch	Thiago Palmieri	Last Modified I	Last Modified Date 2				
Sheet Path: /Project Architecture/		Reviewer:	Size:	Size: Sheet:				
		Thiago Palmieri	A3	3	of 5			



[5] Revision History 09.02.2016 - V1 Revision 26.03.2025 - V2 Revision DD.MM.YYYY - xxx Revision DD.MM.YYYY - xxx Revision **Variant: No variant** Variant: No variant Variant: xxx Variant: xxx - First Draft - Changed conmnector to USB-C - Added MCP23017 GPIOs on the header - Added Jumper selector on LEDs - Added Output voltage selection - Added MCP2221 serial on Header - Added MCP2221 I2C on Header Variant: Comments: Company: thiago.palmieri@adastra.aleeas.com **Board Name:** Project Name: **USB IO Extender USB IO Extender** File Name: Sheet Title: Designer: Revision: Revision History Revision History.kicad_sch Thiago Palmieri Last Modified Date Sheet Path: Size: Sheet: Reviewer: **A4** 5 of 5 /Revision History/ Thiago Palmieri