

RELEASED 30-JULY-2021

Page	Index	Page	Index	Page	Index	Page	Index
1	COVER PAGE	11		21		31	
2	BLOCK DIAGRAM	12		22		32	
3	28PINS SCHEMATIC	13		23		33	
4	REVISION HISTORY	14		24		34	
5		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

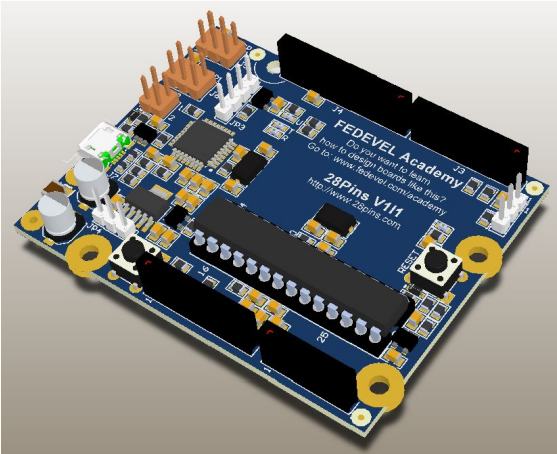
DESIGN NOTE:
Example text for informational
design notes.

DESIGN NOTE:
Example text for debug notes.

DESIGN NOTE:
Example text for cautionary
design notes.

DESIGN NOTE:
Example text for critical
design notes.

LAYOUT NOTE:
Example text for critical
layout guidelines.

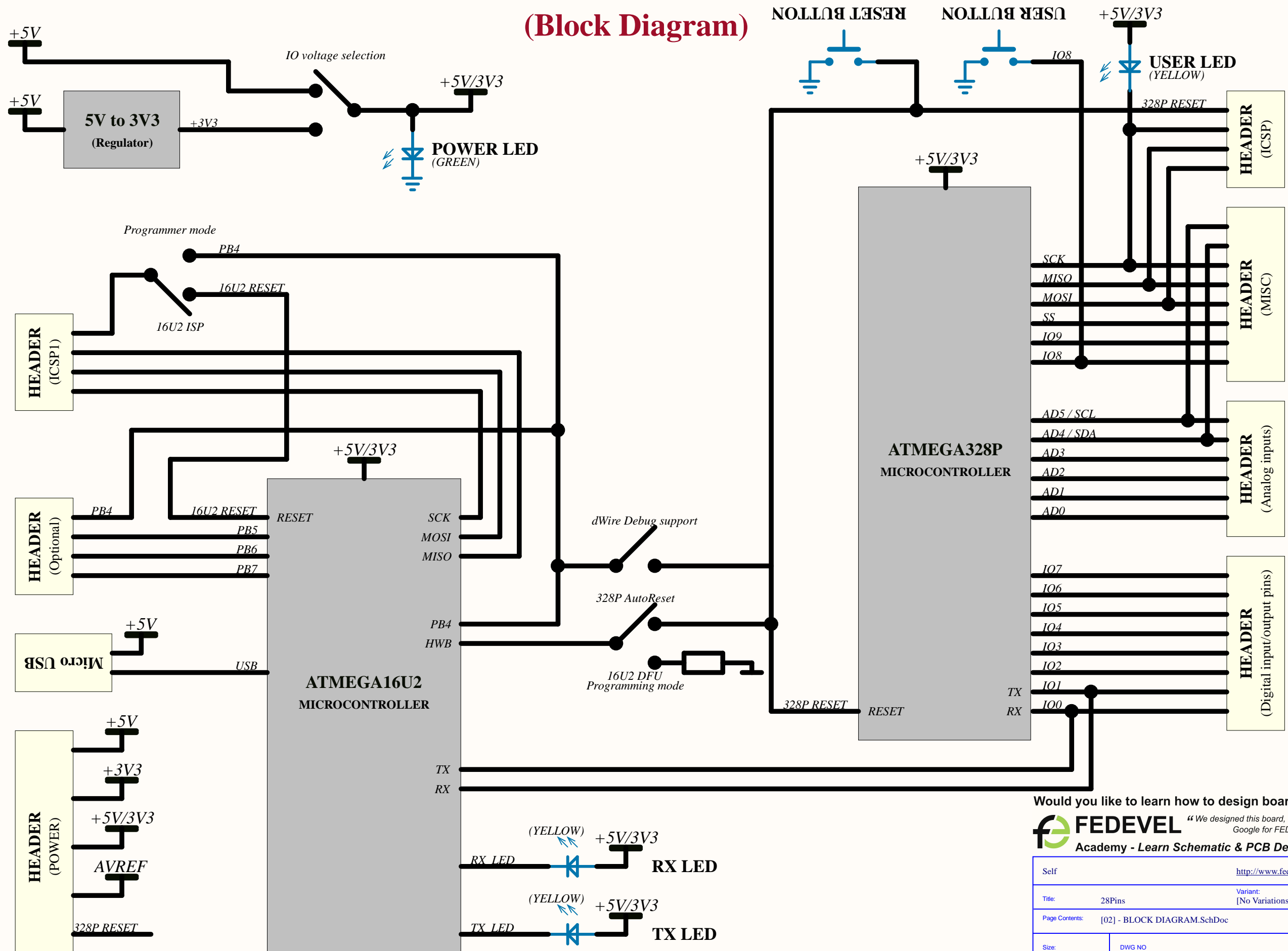


Would you like to learn how to design boards like this?

FEDEVEL “ We designed this board, so you can learn,
Google for FEDEVEL Academy “
Academy - Learn Schematic & PCB Design ONLINE

Self		http://www.fedevel.com/academy	
Title:	28Pins	Variant:	[No Variations]
Page Contents:	[01] - COVER PAGE.SchDoc		Checked by
Size:	DWG NO		Revision: V1I1
Date:	30-07-2021	Designed by	www.fedevel.com
Sheet		1	of 5

28Pins (Block Diagram)



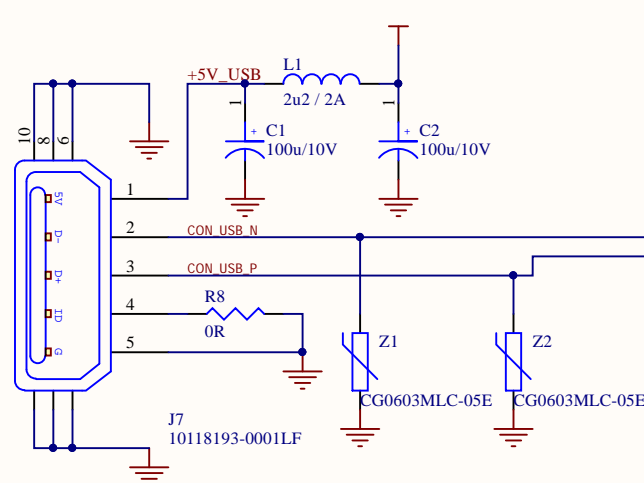
Would you like to learn how to design boards like this?

FEDEVEL "We designed this board, so you can learn,
Google for FEDEVEL Academy"

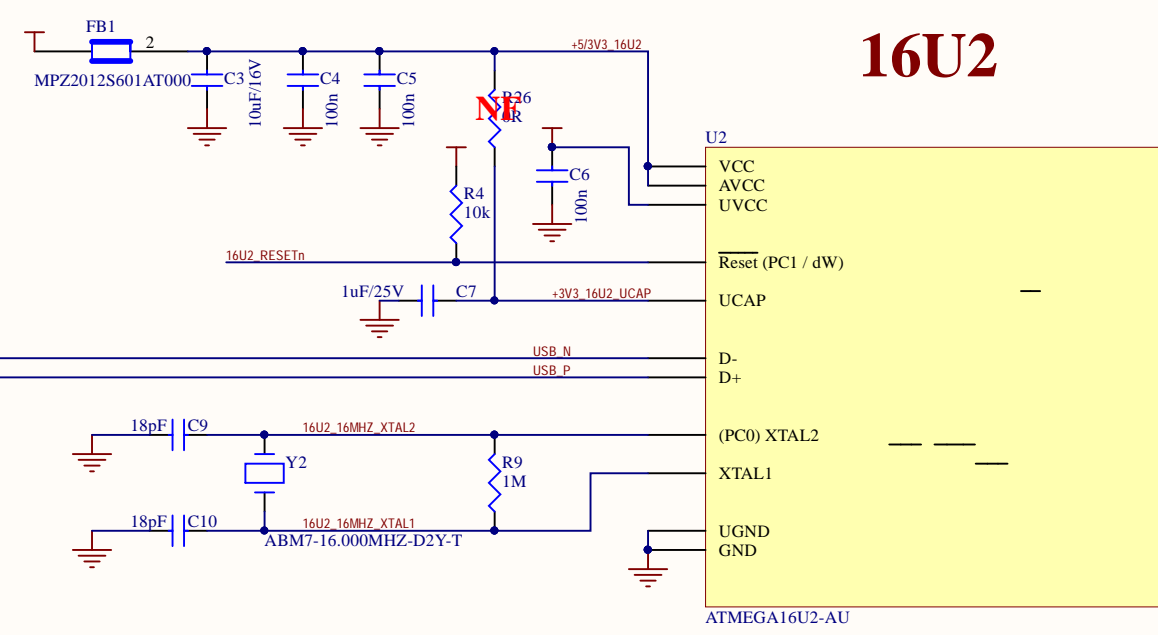
Academy - Learn Schematic & PCB Design ONLINE

Self	http://www.fedevcl.com/academy		
Title:	28Pins	Variant:	[No Variations]
Page Contents:	[02] - BLOCK DIAGRAM.SchDoc		
Size:	DWG NO	Revision:	VIII
Date:	30-07-2021	Designed by	www.fedevcl.com
Sheet	2	Checked by	

Micro USB



16U2



JP2

ICSP1

JP3

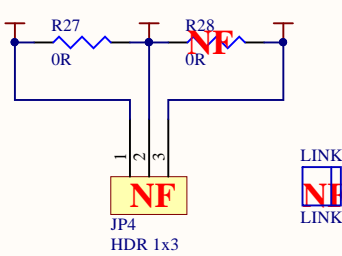
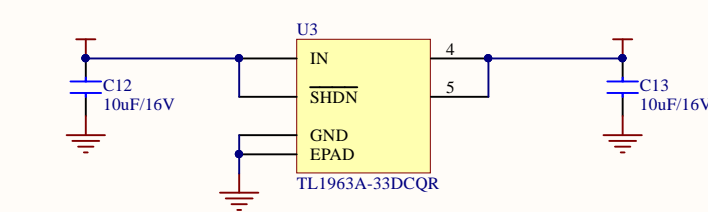
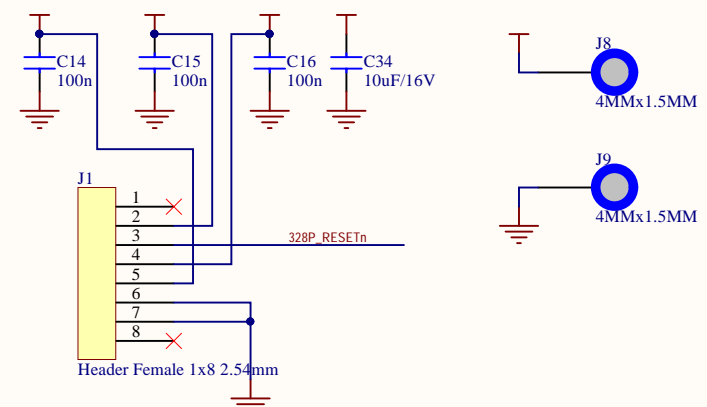
JP1

POWER

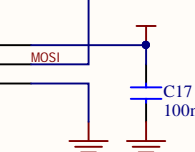
POWER PADS

3V3 LDO

Power Selection

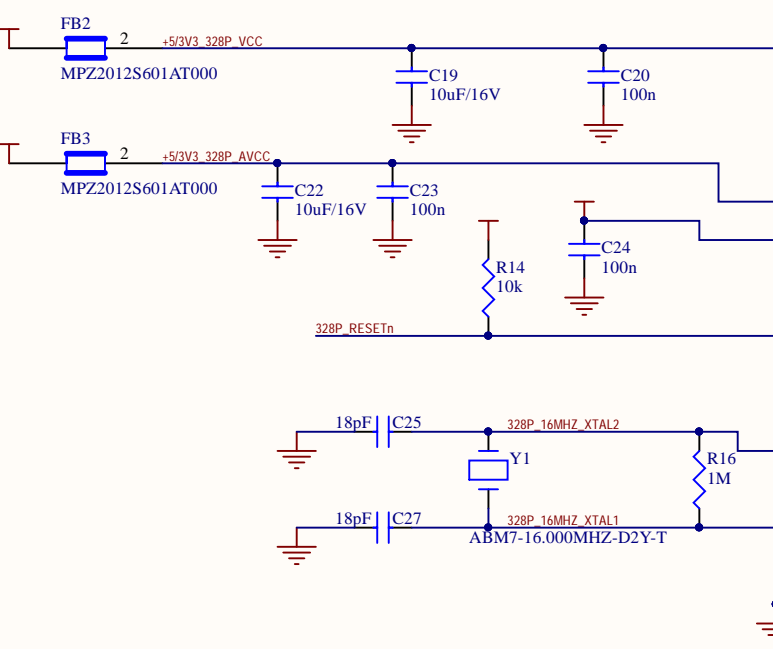
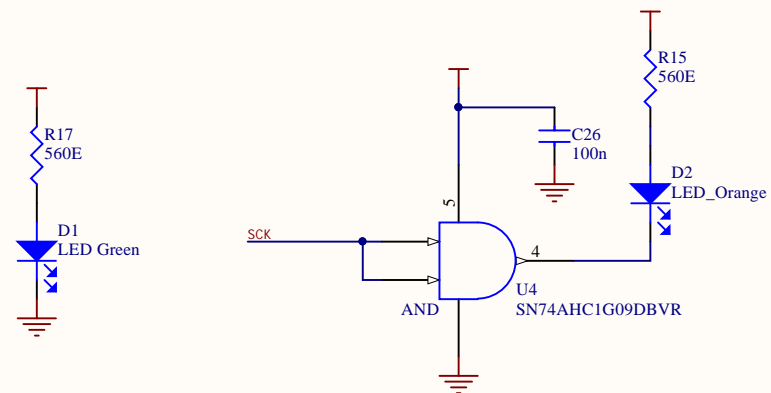


ICSP

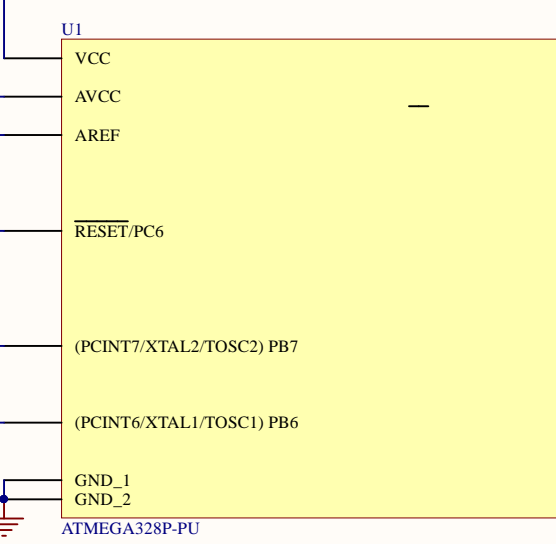


POWER LED

USER LED



328P



IOH

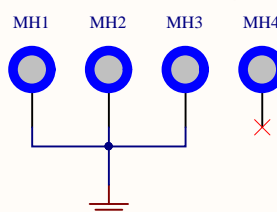
AD

IOL

DIP SOCKET



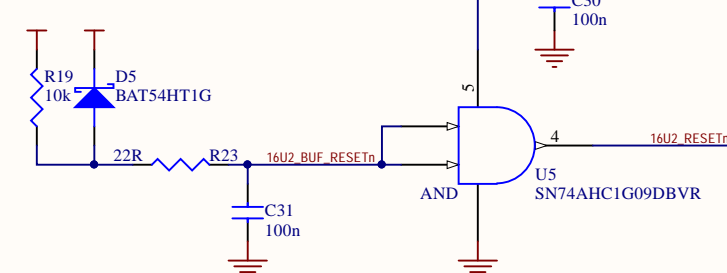
MOUNTING HOLES



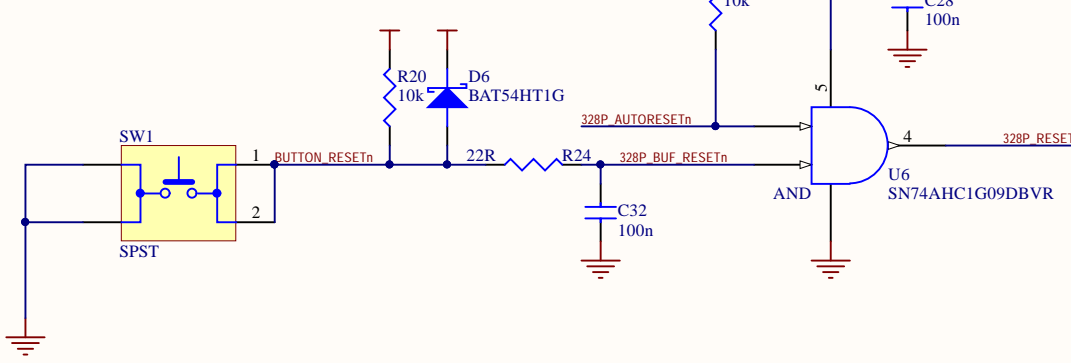
FIDUCIALS



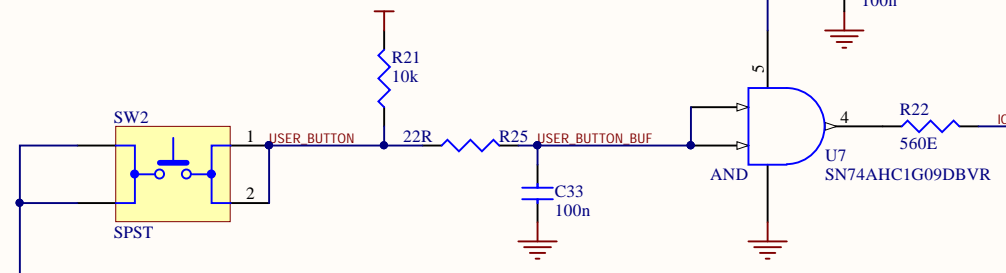
RESET (16U2)



RESET (328P)



USER BUTTON



Would you like to learn how to design boards like this?

FEDEVEL "We designed this board, so you can learn, Google for FEDEVEL Academy"

Academy - Learn Schematic & PCB Design ONLINE

Self	http://www.fedevel.com/academy		
Title:	28Pins	Variant:	[No Variations]
Page Contents:	[03] - 28PINS SCHEMATIC.SchDoc	Checked by	
Size:	DWG NO	Revision:	V111
Date:	30-07-2021	Designed by	www.fedevel.com
Sheet	3	of	5

REVISION HISTORY

Would you like to learn how to design boards like this?



FEDEVEL

Academy - Learn Schematic & PCB Design **ONLINE**

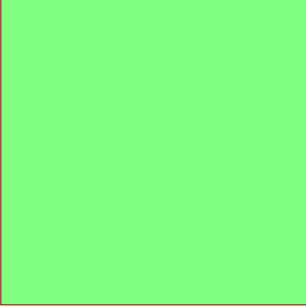
“ We designed this board, so you can learn,
Google for FEDEVEL Academy “

Self		http://www.fedevel.com/academy	
Title:	28Pins	Variant:	[No Variations]
Page Contents:	[04] - REVISION HISTORY.SchDoc		Checked by
Size:	DWG NO		Revision: VIII
Date:	30-07-2021	Sheet	4 of 5

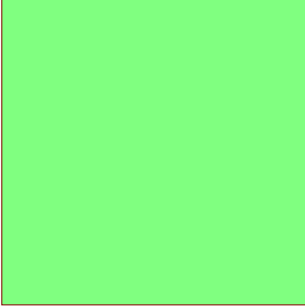
Designator
[01] - COVER PAGE.SchDoc



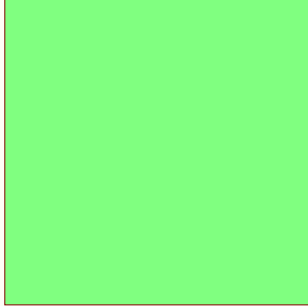
Designator
[02] - BLOCK DIAGRAM.SchDoc



Designator
[03] - 28PINS SCHEMATIC.SchDoc



Designator
[04] - REVISION HISTORY.SchDoc



NOTES

Mark Not Fitted Components as
NF

DRAFT - Very early stage of schematic, ignore details.

PRELIMINARY - Close to final schematic.

CHECKED - There should not be any mistakes. Tell the engineer if you find one.

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

Would you like to learn how to design boards like this?



“ We designed this board, so you can learn,
Google for FEDEVEL Academy “

Academy - Learn Schematic & PCB Design ONLINE

Self		http://www.fedevel.com/academy	
Title:	28Pins	Variant:	[No Variations]
Page Contents:	28Pins_Project_VIII Project.SchDoc		Checked by
Size:	DWG NO		Revision: VIII
Date:	30-07-2021	Designed by	www.fedevel.com
Sheet	5	of	5