

My28Pins

Variant: **FIXED 5V**

6/5/2020
V1I1

RELEASED 03-JUN-2020

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

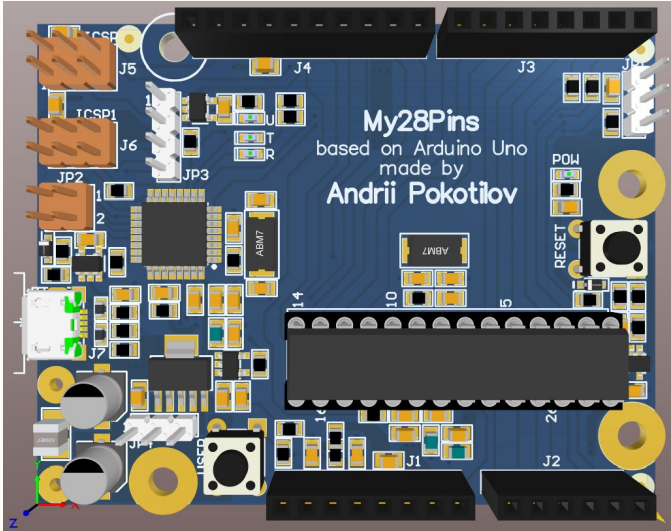
DESIGN NOTE:
Example text for informational
design notes.

DESIGN NOTE:
Example text for cautionary
design notes.

DESIGN NOTE:
Example text for debug notes.

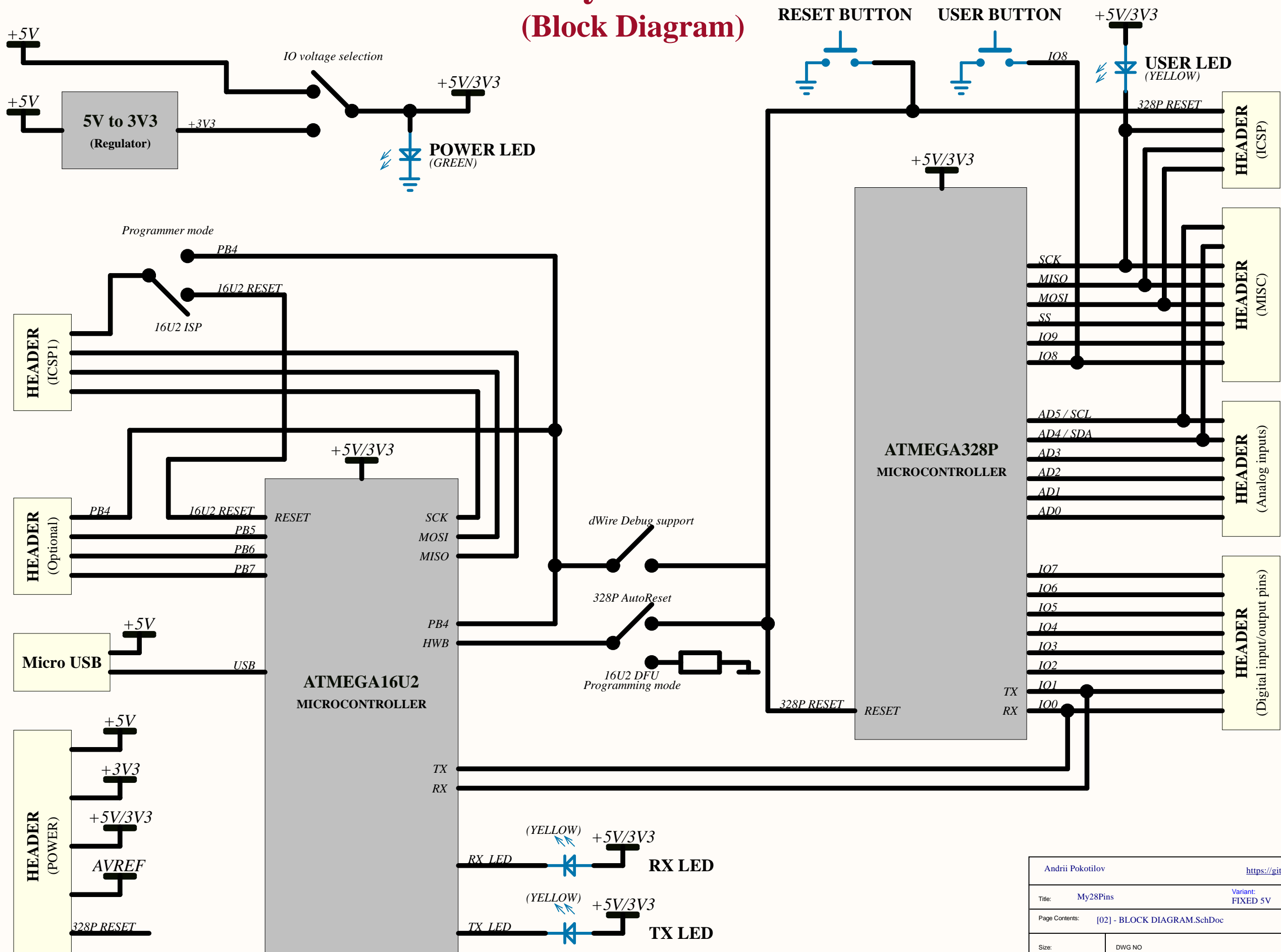
DESIGN NOTE:
Example text for critical
design notes.

LAYOUT NOTE:
Example text for critical
layout guidelines.



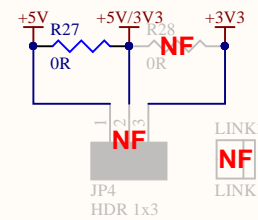
Andrii Pokotilov		https://github.com/Anpokot	
Title: My28Pins		Variant: FIXED 5V	
Page Contents: [01] - COVER PAGE.SchDoc		Checked by	
Size:	DWG NO		Revision: VIII
Date: 6/5/2020	Designed by Andrii Pokotilov		Sheet 1 of 5

My28Pins (Block Diagram)



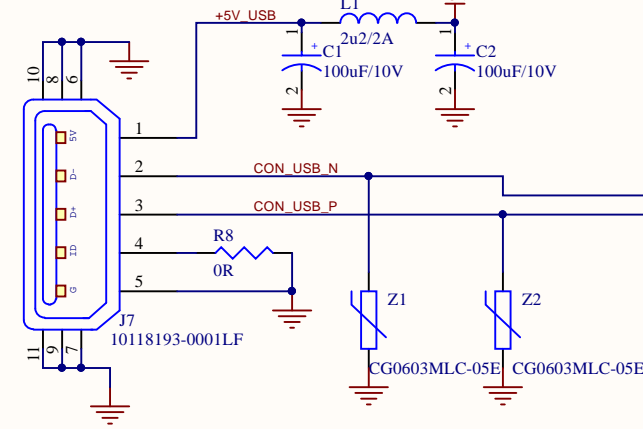
Andrii Pokotilov		https://github.com/Anpokot	
Title: My28Pins		Variant: FIXED 5V	
Page Contents: [02] - BLOCK DIAGRAM.SchDoc		Checked by	
Size:	DWG NO		Revision: VIII
Date: 6/5/2020	Designed by Andrii Pokotilov		Sheet 2 of 5

Power Selection



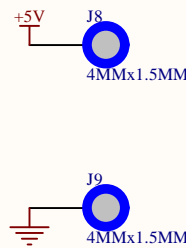
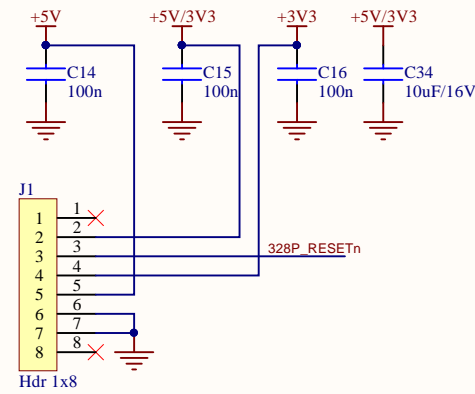
DESIGN NOTE:
This board can be powered from micro USB connector (J7) or a single +3.3V power rail (through J1 pin 4). If +3.3V is used, fit R26 and R28. In this case, JP4 & R27 must NOT be fitted, otherwise the board may be damaged.

Micro USB

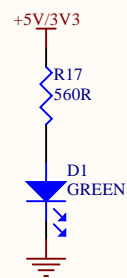


POWER

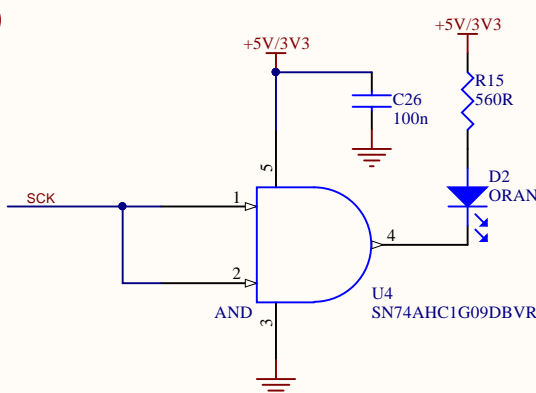
POWER PADS



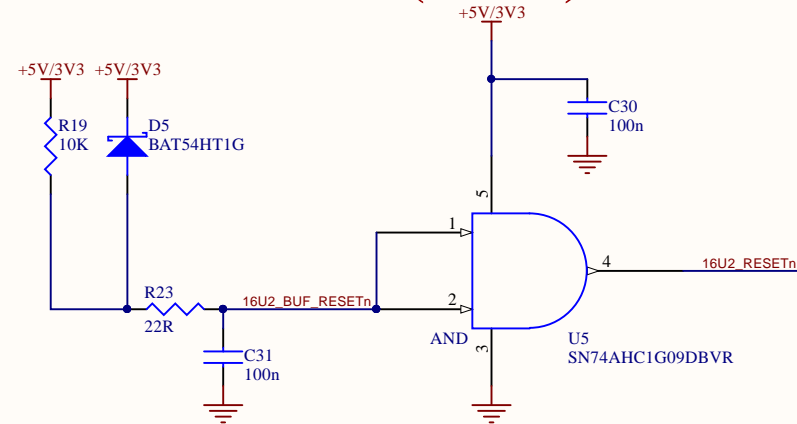
POWER LED



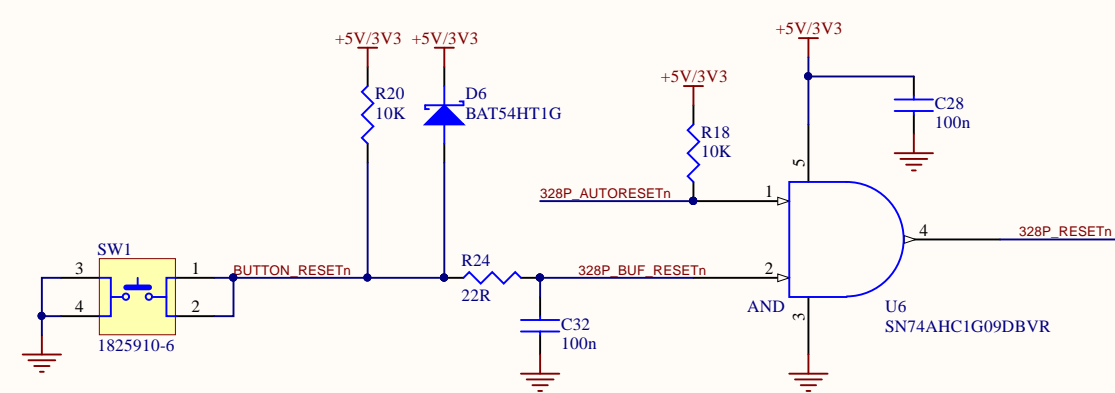
USER LED



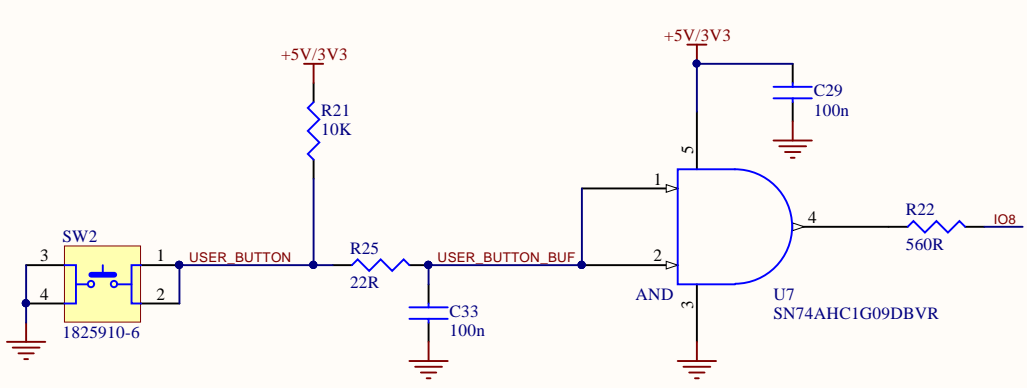
RESET (16U2)



RESET (328P)

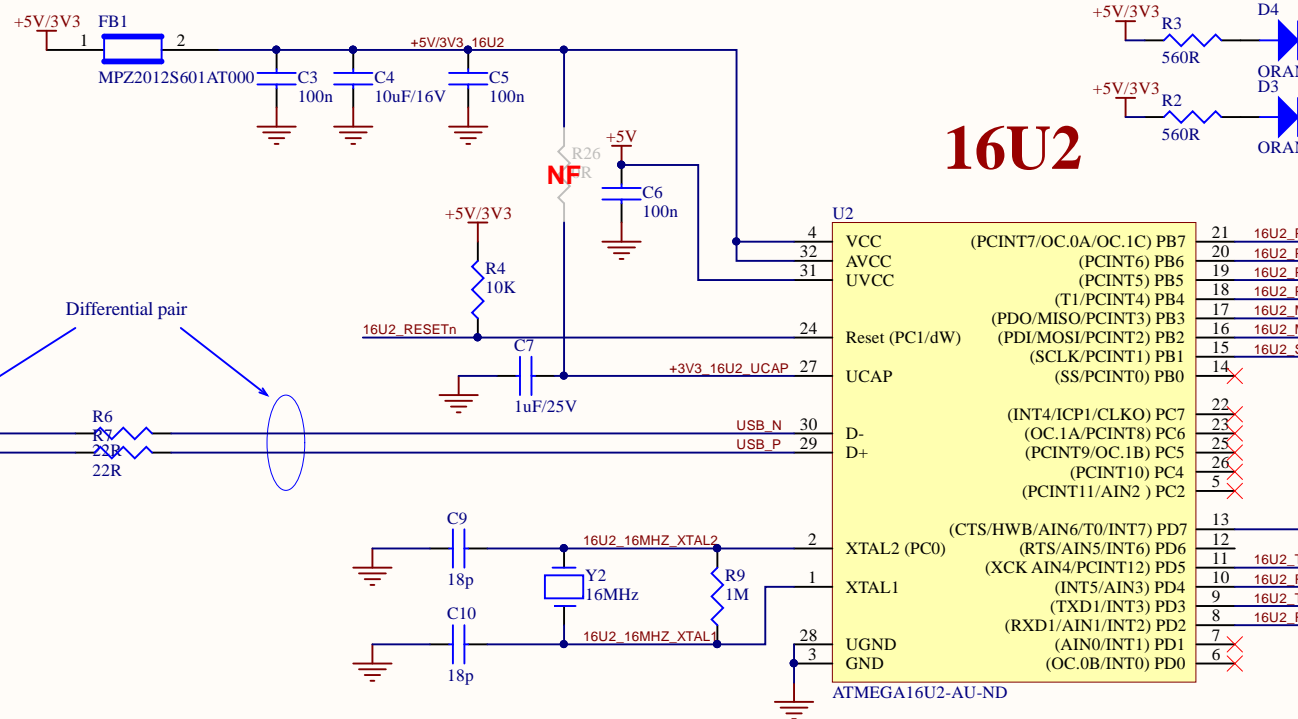


USER BUTTON

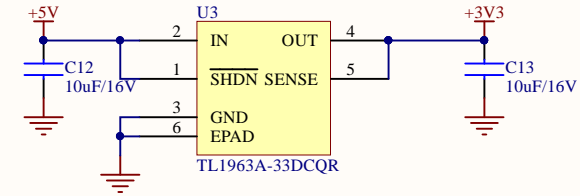


My28Pins - SCHEMATIC

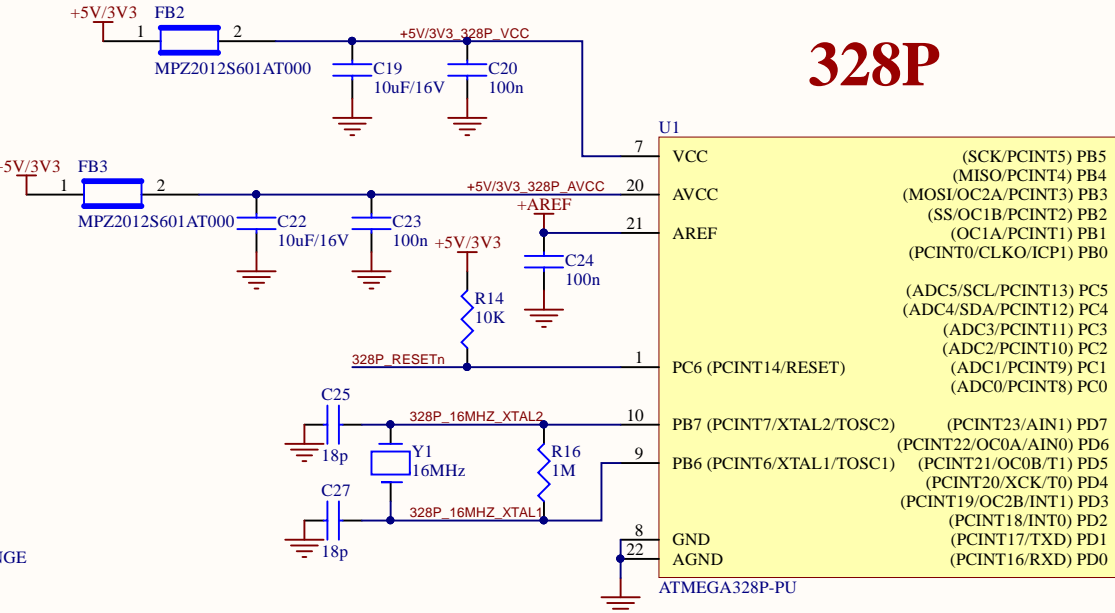
16U2



3V3 LDO



328P



JP2

ICSP1

JP3

JP1

ICSP

IOH

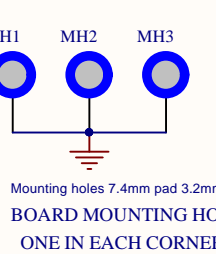
AD

IOL

DIP SOCKET



MOUNTING HOLES



FIDUCIALS

1	2	3	4	5	6	7	8																								
A	REVISION HISTORY							A																							
B								B																							
C								C																							
D							<table><tr><td colspan="2">Andrii Pokotilov</td><td colspan="2">https://github.com/Anpokot</td></tr><tr><td>Title:</td><td colspan="2">My28Pins</td><td>Variant: FIXED 5V</td></tr><tr><td>Page Contents:</td><td colspan="3">[04] - REVISION HISTORY.SchDoc</td><td>Checked by</td></tr><tr><td>Size:</td><td colspan="3">DWG NO</td><td>Revision: VIII</td></tr><tr><td>Date:</td><td>6/5/2020</td><td colspan="2">Designed by Andrii Pokotilov</td><td>Sheet 4 of 5</td></tr></table>	Andrii Pokotilov		https://github.com/Anpokot		Title:	My28Pins		Variant: FIXED 5V	Page Contents:	[04] - REVISION HISTORY.SchDoc			Checked by	Size:	DWG NO			Revision: VIII	Date:	6/5/2020	Designed by Andrii Pokotilov		Sheet 4 of 5	D
Andrii Pokotilov		https://github.com/Anpokot																													
Title:	My28Pins		Variant: FIXED 5V																												
Page Contents:	[04] - REVISION HISTORY.SchDoc			Checked by																											
Size:	DWG NO			Revision: VIII																											
Date:	6/5/2020	Designed by Andrii Pokotilov		Sheet 4 of 5																											
1	2	3	4	5	6	7	8																								

	1	2	3	4	5	6	7	8
A	<div>Designator [01] - COVER PAGE.SchDoc</div> <div></div>	<div>Designator [02] - BLOCK DIAGRAM.SchDoc</div> <div></div>	<div>Designator [03] - 28PINS SCHEMATIC.SchDoc</div> <div></div>	<div>Designator [04] - REVISION HISTORY.SchDoc</div> <div></div>				
B								
C								
D							<div><div><div>Andrii Pokotilov</div><div>My28Pins</div><div>28Pins_Project_VIII1 Project.SchDoc</div><div><div>Date: 6/5/2020</div><div>Designed by Andrii Pokotilov</div></div></div><div><div>Variant: FIXED 5V</div><div>Checked by</div><div><div>DWG NO</div><div>Revision: VIII</div></div><div>Sheet 5 of 5</div></div></div>	
	1	2	3	4	5	6	7	8