

WRF01\_ZERO\_SHIELD.PrjPcb

27.04.2016  
V1I3

Checked

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DESIGN CONSIDERATIONS

DESIGN NOTE:  
Example text for informational  
design notes .

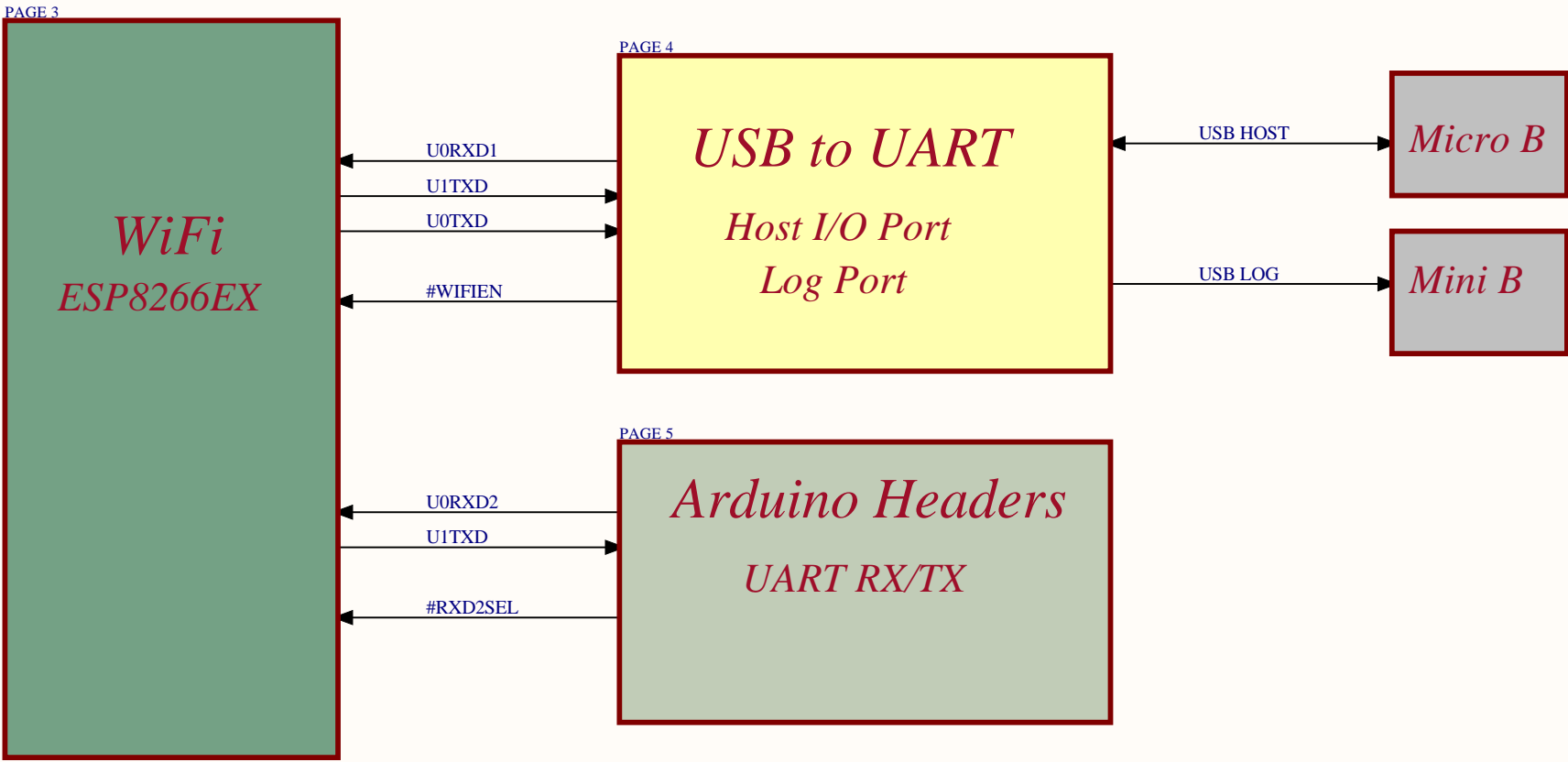
DESIGN NOTE:  
Example text for critical  
design notes.

DESIGN NOTE:  
Example text for cautionary  
design notes.

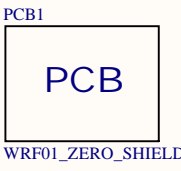
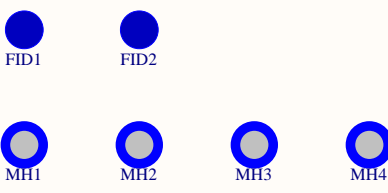
LAYOUT NOTE:  
Example text for critical  
layout guidelines.

# WRF01\_ZERO\_SHIELD.PrjPcb

## (Block Diagram)

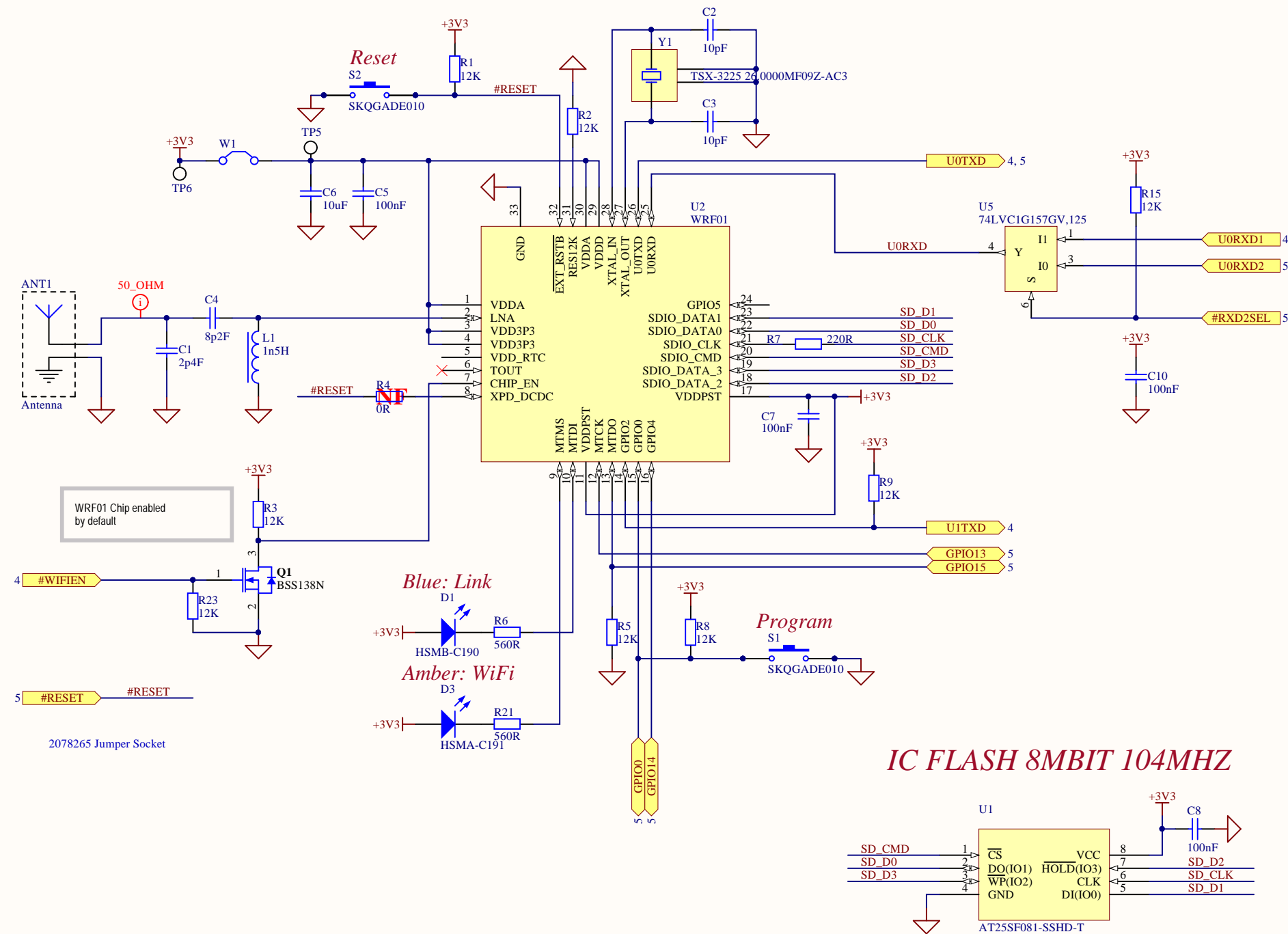


### Mechanical



# WiFi

## WRF01 Chip



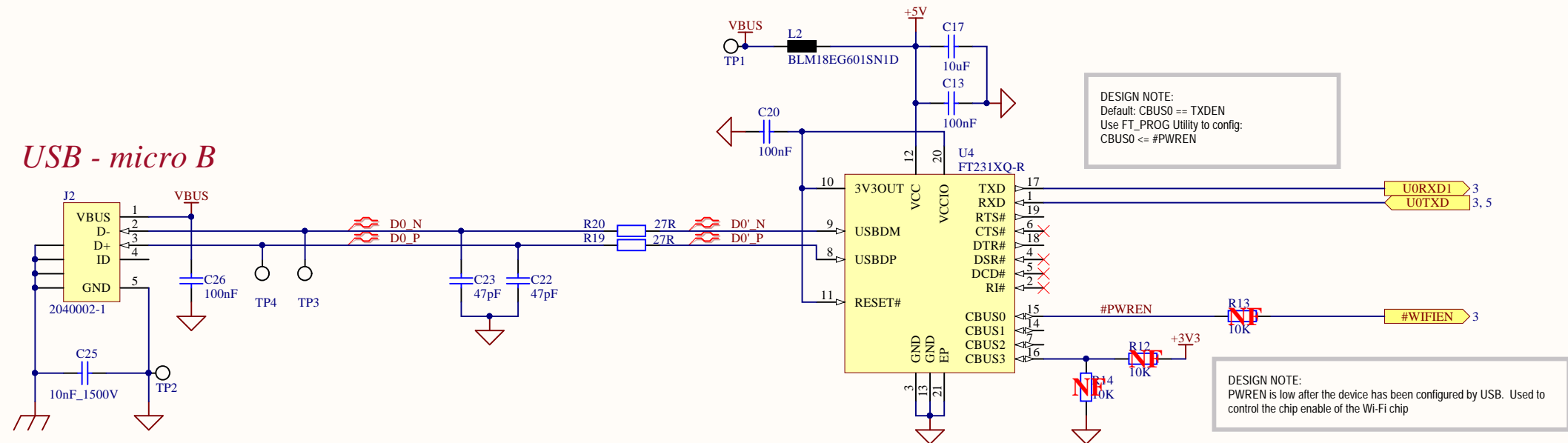
Espressif code can boot in different modes, selected on power-up based on GPIO pin levels.

MTD0 == L, GPIO0 == L and GPIO2 == H: Download code from UART  
MTD0 == L, GPIO0 == H and GPIO2 == H: Boot from SPI Flash

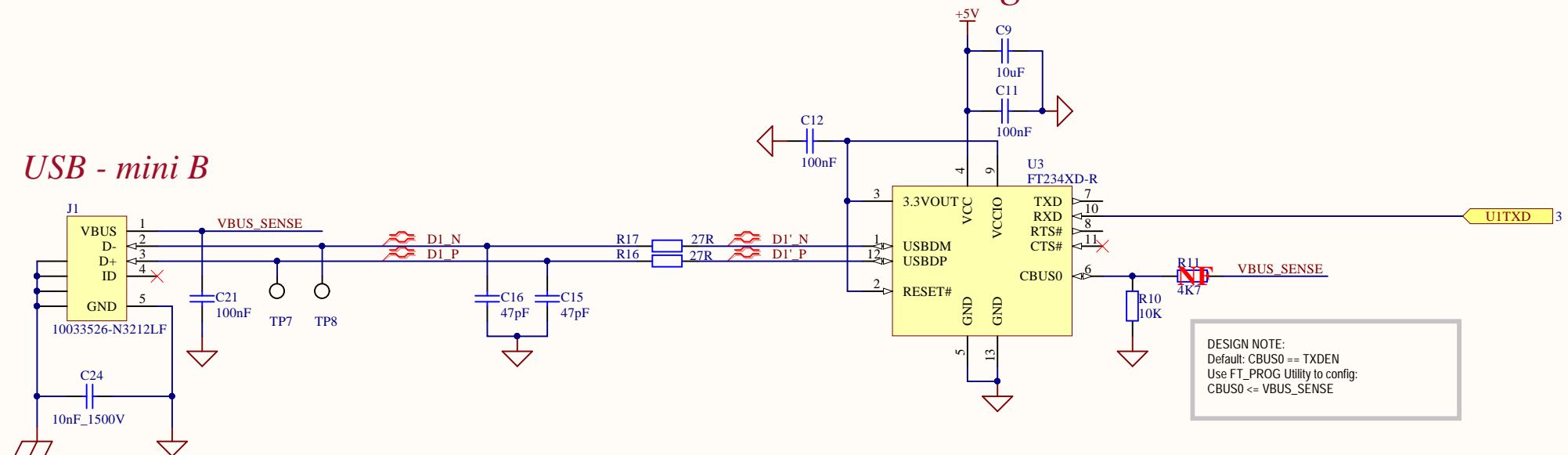
## IC FLASH 8MBIT 104MHZ

# USB to UART

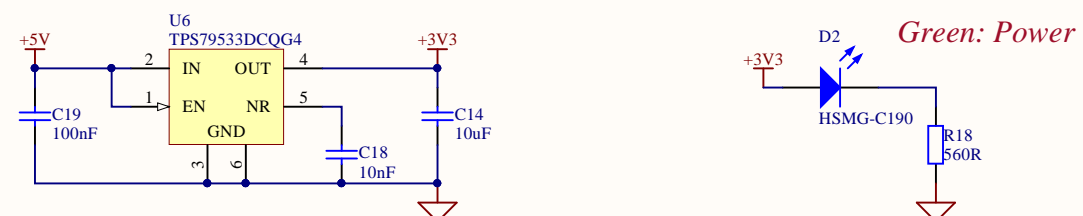
## USB Host Port




## USB Log Port

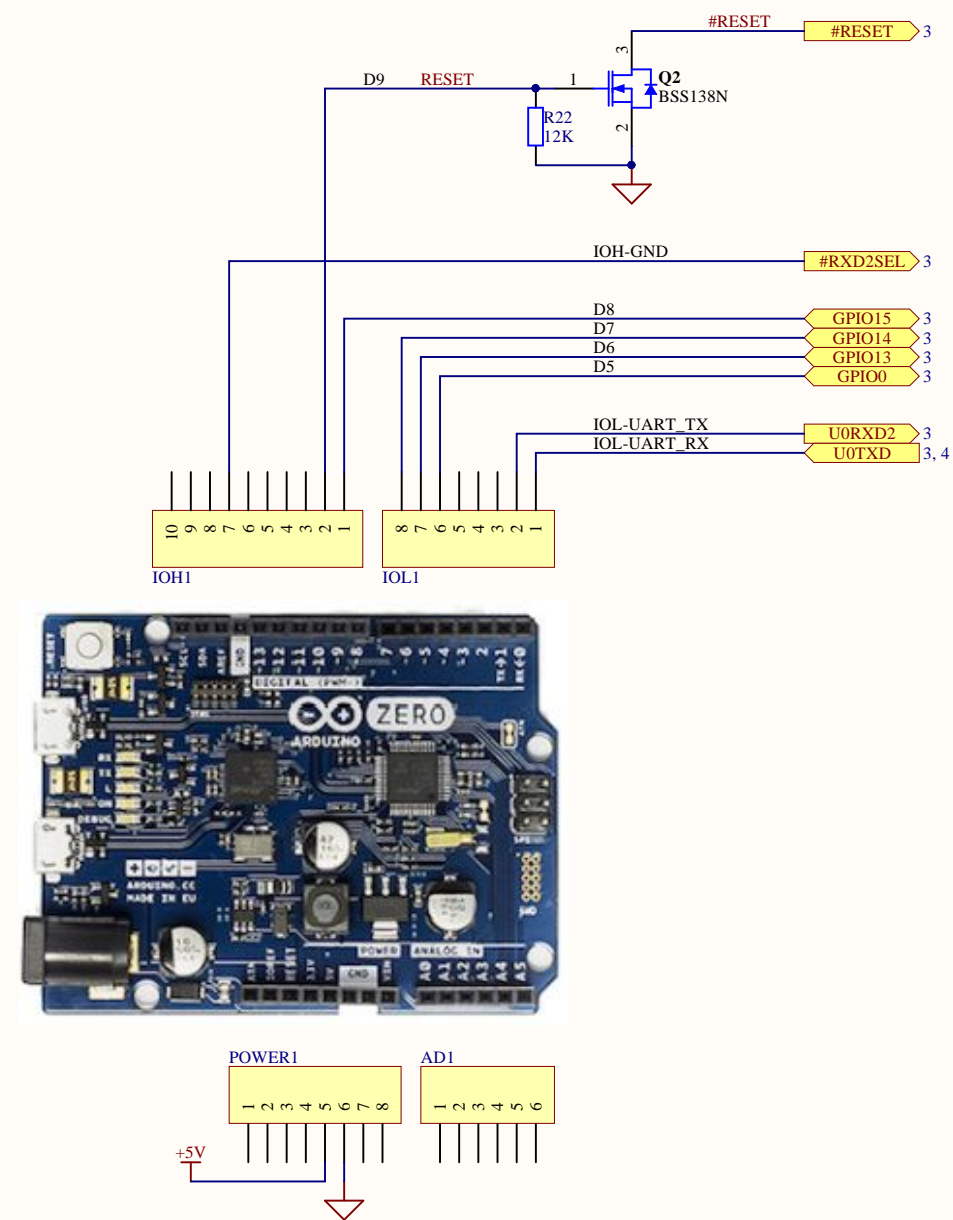





## LDO Regulator (500mA)



Title <b><i>USB to UART</i></b>			<i>DeviceDrive</i> <i>Skaholtveien 1</i> <i>3484 HOLMSBU</i> <i>NORWAY</i> 
Size: <b>A3</b>	Number:	Revision: <b>V1I3</b>	
Date: <b>27.04.2016</b> Time: <b>14:17:47</b>	Sheet <b>4</b> of <b>6</b>		
File: <b>[04] - USBtoUART.SchDoc</b>			

# ARDUINO HEADERS



1	2	3	4	5	6	7	8																									
A								A																								
B	<div><div><div>[01] - CoverPage.SchDoc</div><div></div></div><div><div>[02] - BlockDiagram.SchDoc</div><div></div></div><div><div>U_[03] - Wi-Fi_Chip</div><div>[03] - Wi-Fi_Chip.SchDoc</div><div></div></div><div><div>U_[04] - USBtoUART</div><div>[04] - USBtoUART.SchDoc</div><div></div></div><div><div>U_[05] - ArduinoHeader</div><div>[05] - ArduinoHeader.SchDoc</div><div></div></div></div>							B																								
C	<div>Schematic Status Explanation</div> <div>DRAFT - Very early stage of schematic, ignore details.</div> <div>PRELIMINARY - Close to final schematic.</div> <div>CHECKED - There should not be any mistakes. Tell the engineer if you find one.</div> <div>RELEASED - A board with this schematic has been sent to production.</div>							C																								
D								D																								
<table><tr><td colspan="3">Title <b>WRF01 ZERO SHIELD</b></td><td colspan="2">DeviceDrive Skaholtveien 1 3484 HOLMSBU NORWAY</td><td rowspan="4">Device Drive</td></tr><tr><td>Size: A3</td><td>Number:</td><td>Revision:V113</td><td colspan="3"></td></tr><tr><td>Date: 27.04.2016</td><td>Time: 14:17:48</td><td>Sheet6 of 6</td><td colspan="3"></td></tr><tr><td colspan="3">File: WRF01_ZERO_SHIELD.SchDoc</td><td colspan="3"></td></tr></table>								Title <b>WRF01 ZERO SHIELD</b>			DeviceDrive Skaholtveien 1 3484 HOLMSBU NORWAY		 Device Drive	Size: A3	Number:	Revision:V113				Date: 27.04.2016	Time: 14:17:48	Sheet6 of 6				File: WRF01_ZERO_SHIELD.SchDoc						
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