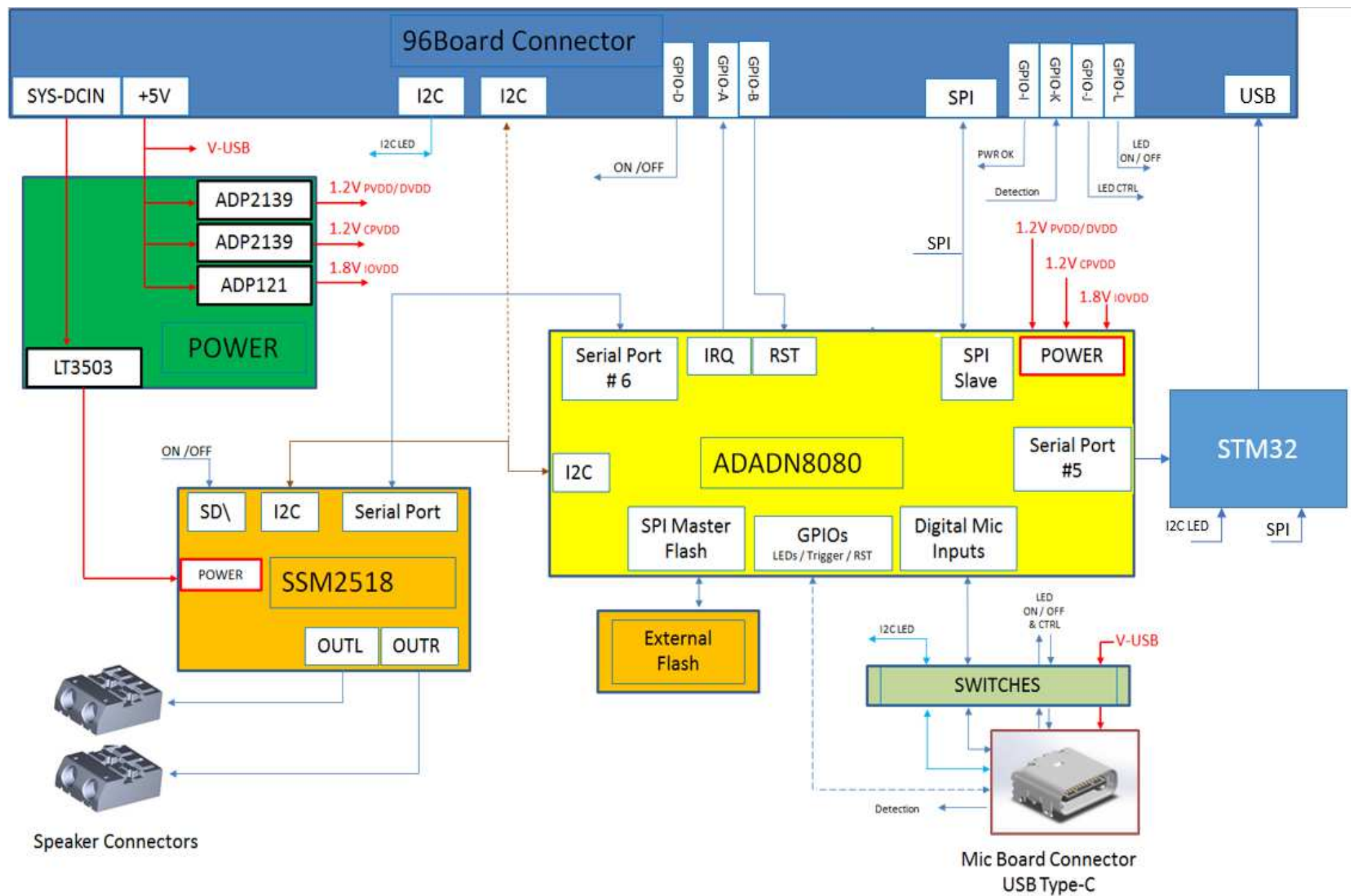
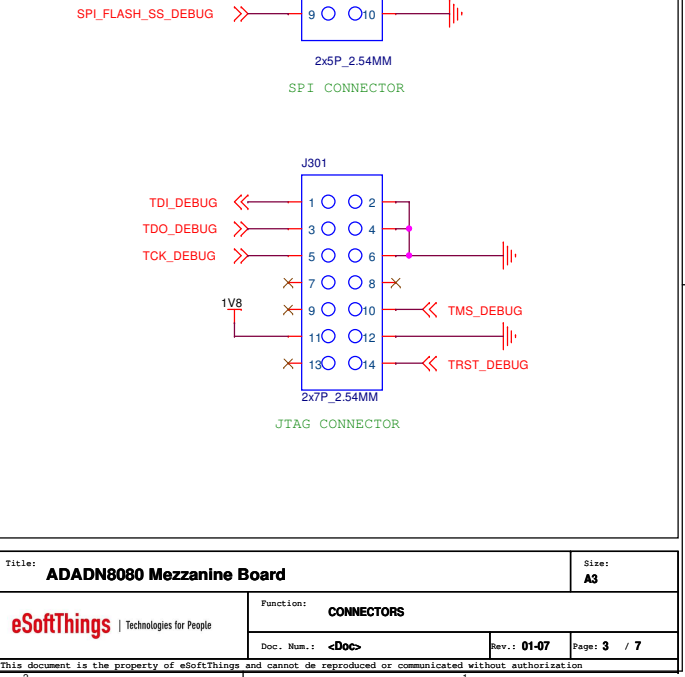
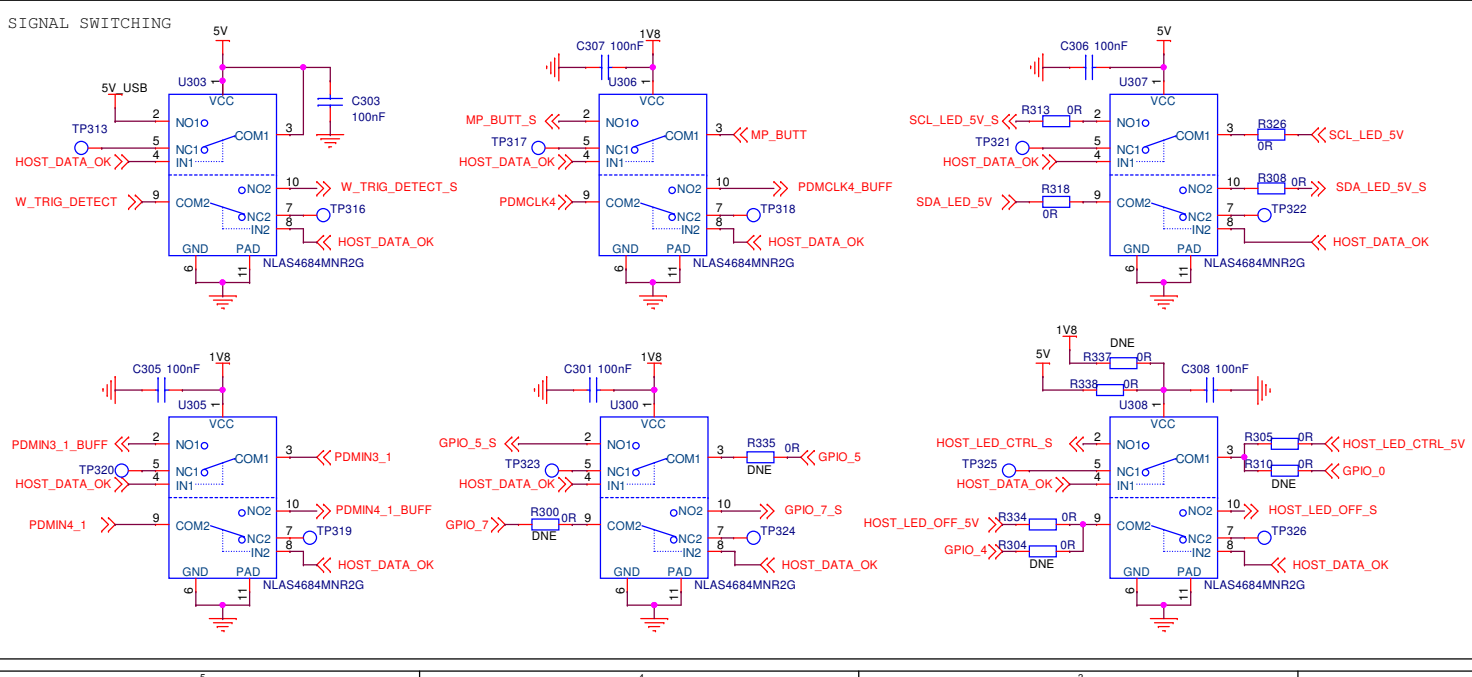
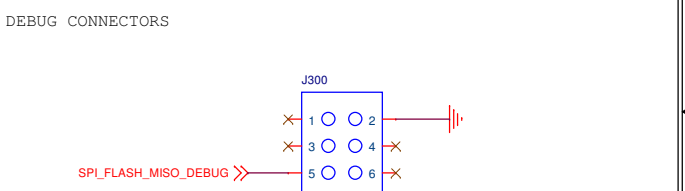
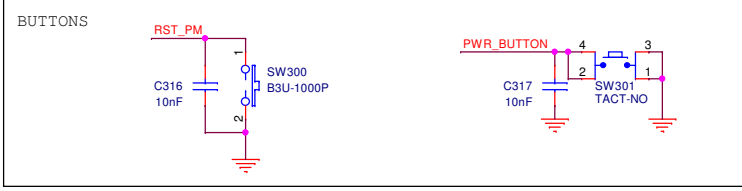
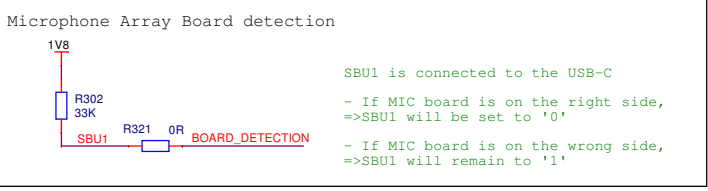
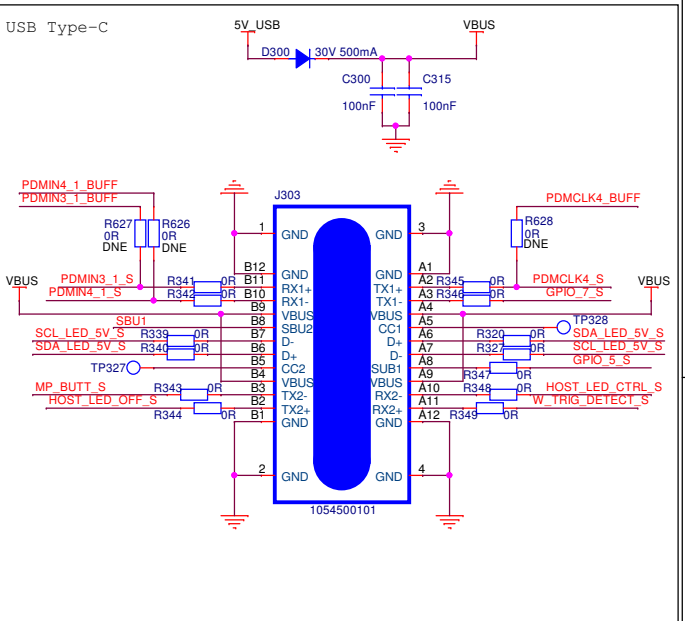
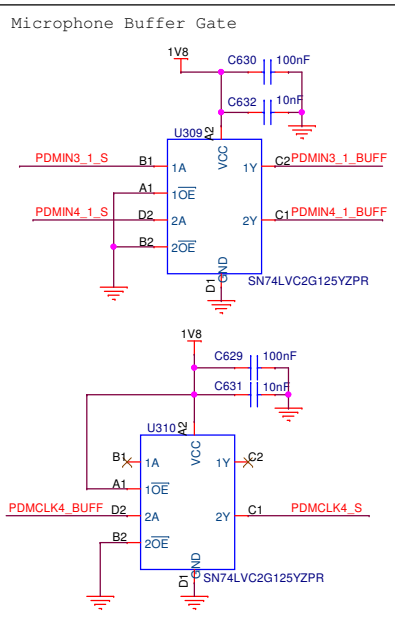
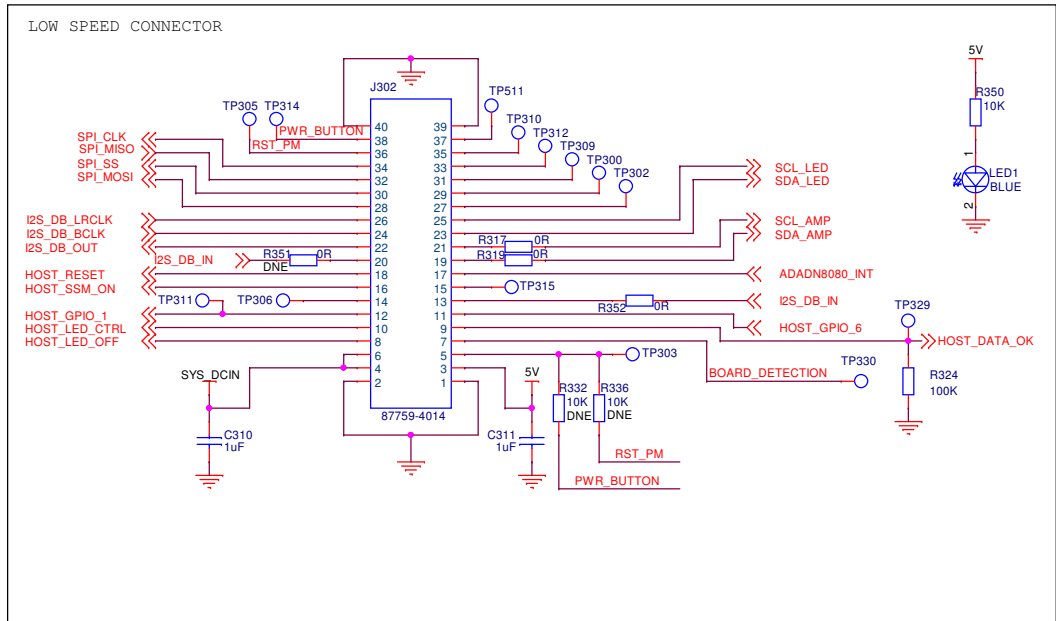


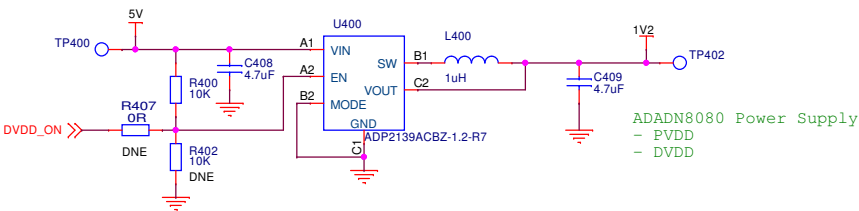
<div>NOTES:</div>				ADADN8080 Reference Design  Mezzanine Board																									
DATE:	CHANGE:	AUTHOR:	REV:																										
April 10th, 2018	Created	M.SAPENE	00-01																										
May 03rd, 2018	Draft Version for Review	M.SAPENE	00-16	<table><tr><td>Page</td><td>Title</td></tr><tr><td>01</td><td>NOTES</td></tr><tr><td>02</td><td>DIAGRAM</td></tr><tr><td>03</td><td>CONNECTORS</td></tr><tr><td>04</td><td>POWER REGULATION</td></tr><tr><td>05</td><td>ADADN8080</td></tr><tr><td>06</td><td>SSM2518 + LEVEL SHIFT</td></tr></table>				Page	Title	01	NOTES	02	DIAGRAM	03	CONNECTORS	04	POWER REGULATION	05	ADADN8080	06	SSM2518 + LEVEL SHIFT								
Page	Title																												
01	NOTES																												
02	DIAGRAM																												
03	CONNECTORS																												
04	POWER REGULATION																												
05	ADADN8080																												
06	SSM2518 + LEVEL SHIFT																												
May 04th, 2018	Minor Changes - Version for Review	M.SAPENE	00-17																										
May 14th, 2018	Minor Changes Version for Review & Layout start IQD Oscillator Test Poitnts on Switches ADG3301 Symbol Update Change TH connectors to SMT (Debug)	M.SAPENE	00-18																										
May 17th, 2018	Minor Changes - OR on I2C signals (close to J302)	M.SAPENE	00-19																										
May 18th, 2018	Minor Changes - Change LS connector from TH to SMT	M.SAPENE	00-20																										
May 22th, 2018	Minor Changes - Reset Button for Manual Reset on ResetB	M.SAPENE	00-21																										
May 25th, 2018	Minor Changes - Switches Power rail optimisation Switches Power Pad added USB-C Placement pads added	M.SAPENE	00-22																										
Sept 13th, 2018	Modification for RUN#2 Inverted MIC connections Changed board detection Changed debug connectors Updated BOM Minor changes (1.8V, I²S, I2C, Self_boot)	C. MAUGENDRE	01-00																										
Sept 25th, 2018	Minor changes Naming of I2S signals Added resistors on amp enable pin Replaced HOST_PWR_OK by HOST_DATA_OK	C. MAUGENDRE	01-01																										
Sept 26th, 2018	Minor changes Added powering LED	C. MAUGENDRE	01-02																										
Sept 27th, 2018	Minor changes Remove R545	C. MAUGENDRE	01-03																										
Oct 3rd, 2018	Minor changes Added 0R resistors on Dragon Board I2S IN	C. MAUGENDRE	01-04																										
Oct 5th, 2018	Add STM32 and USB connector => I2S link to DB C.	C. HERSANT	01-05																										
November 19th, 2018	Change reference of J302	C. HERSANT	01-07																										
				<table><tr><td colspan="3">Title: ADADN8080 Mezzanine Board</td><td colspan="2">Size: A4</td></tr><tr><td colspan="3" rowspan="2"><div>eSoftThings</div>   Technologies for People</td><td colspan="2">Function: NOTES</td></tr><tr><td>Doc. Num.: &lt;Doc&gt;</td><td>Rev.: 01-07</td></tr><tr><td colspan="5">Page: 1 / 7</td></tr><tr><td colspan="5">This document is the property of eSoftThings and cannot de reproduced or communicated without authorization</td></tr></table>				Title: ADADN8080 Mezzanine Board			Size: A4		<div>eSoftThings</div>   Technologies for People			Function: NOTES		Doc. Num.: <Doc>	Rev.: 01-07	Page: 1 / 7					This document is the property of eSoftThings and cannot de reproduced or communicated without authorization				
Title: ADADN8080 Mezzanine Board			Size: A4																										
<div>eSoftThings</div>   Technologies for People			Function: NOTES																										
			Doc. Num.: <Doc>	Rev.: 01-07																									
Page: 1 / 7																													
This document is the property of eSoftThings and cannot de reproduced or communicated without authorization																													



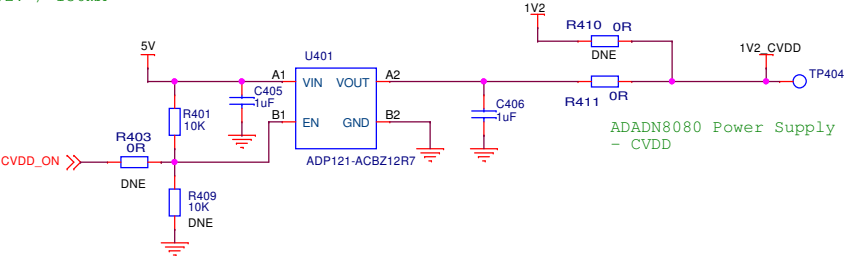


POWER REGULATION

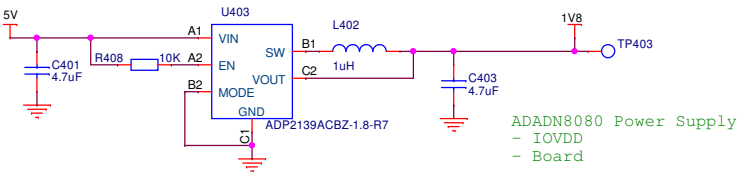
Voltage regulation  
1.2V / 800mA



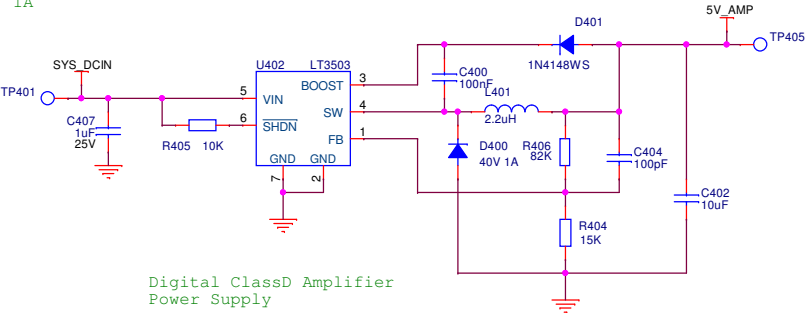
Voltage regulation  
1.2V / 150mA

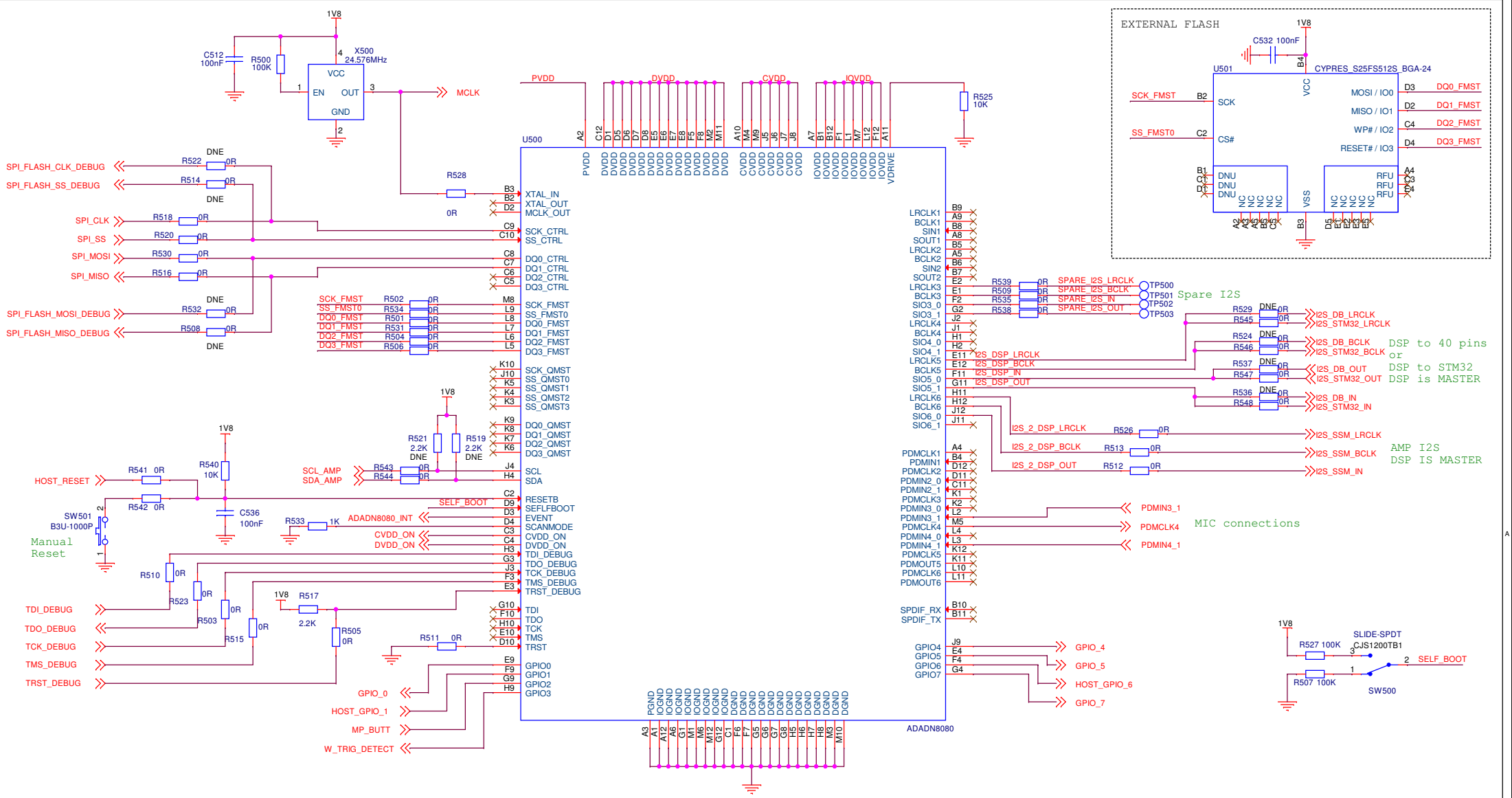


Voltage regulation  
1.8V / 800mA



Voltage regulation  
5V / 1A





How many 100nF caps Minimum: 9x instead of 14x on DVDD, as MinNow board design?

LEDs Commands  
Speaker Location Detection LEDs:  
GPIO0 ; GPIO4 ; GPIO5 ; GPIO7  
Trigger Word Detection:  
GPIO3  
Host GPIO LED:  
GPIO6, No LED placed  
ADADN8080 EVENT LED  
EVENT, No LED placed

ADADN8080 Pining Convention name:  
SIOx\_0 : ADAN8080 I2S Data Out  
SIOx\_1: ADADN8080 I2S Data\_In

1V2 CVDD

1V2 PVDD

1V8 IOVDD

ADADN8080 Mezzanine Board

Function: ADADN8080

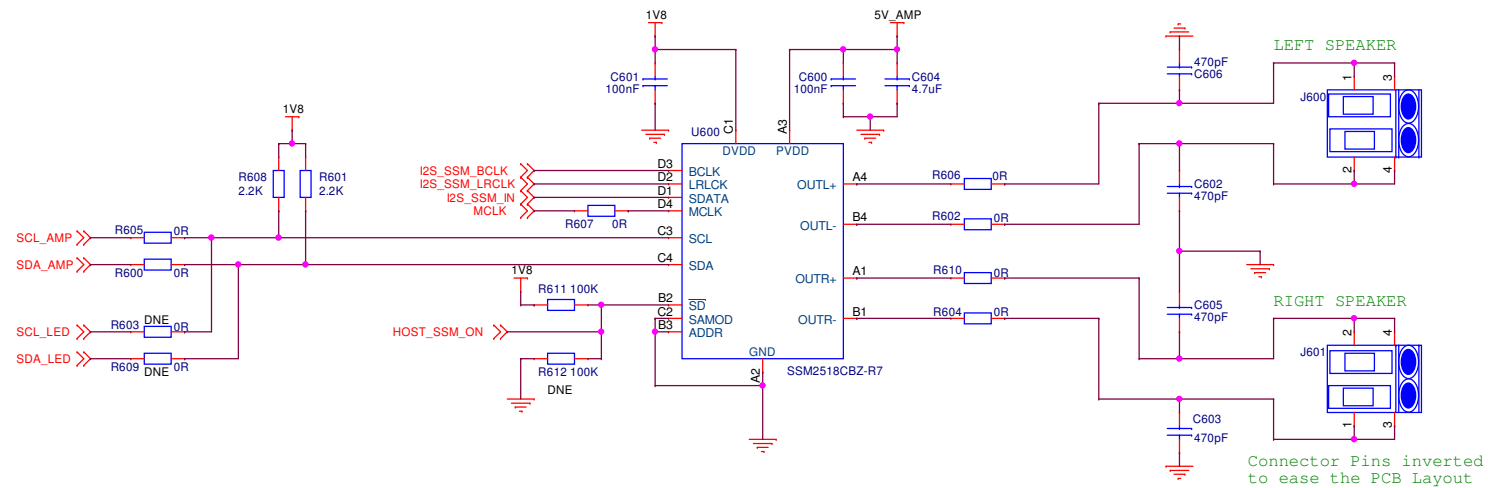
Doc. Num.: <Doc>

Rev.: 01-07

Page: 6 / 7

This document is the property of eSoftThings and cannot be reproduced or communicated without authorization

# CLASS-D AMPLIFIER 2x 2W



## LEVEL SHIFTING

