

A

B

C

D

1

1

2

2

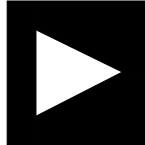
3

3

4

4

# ADSP-BF537 EZ-KIT LITE SCHEMATIC

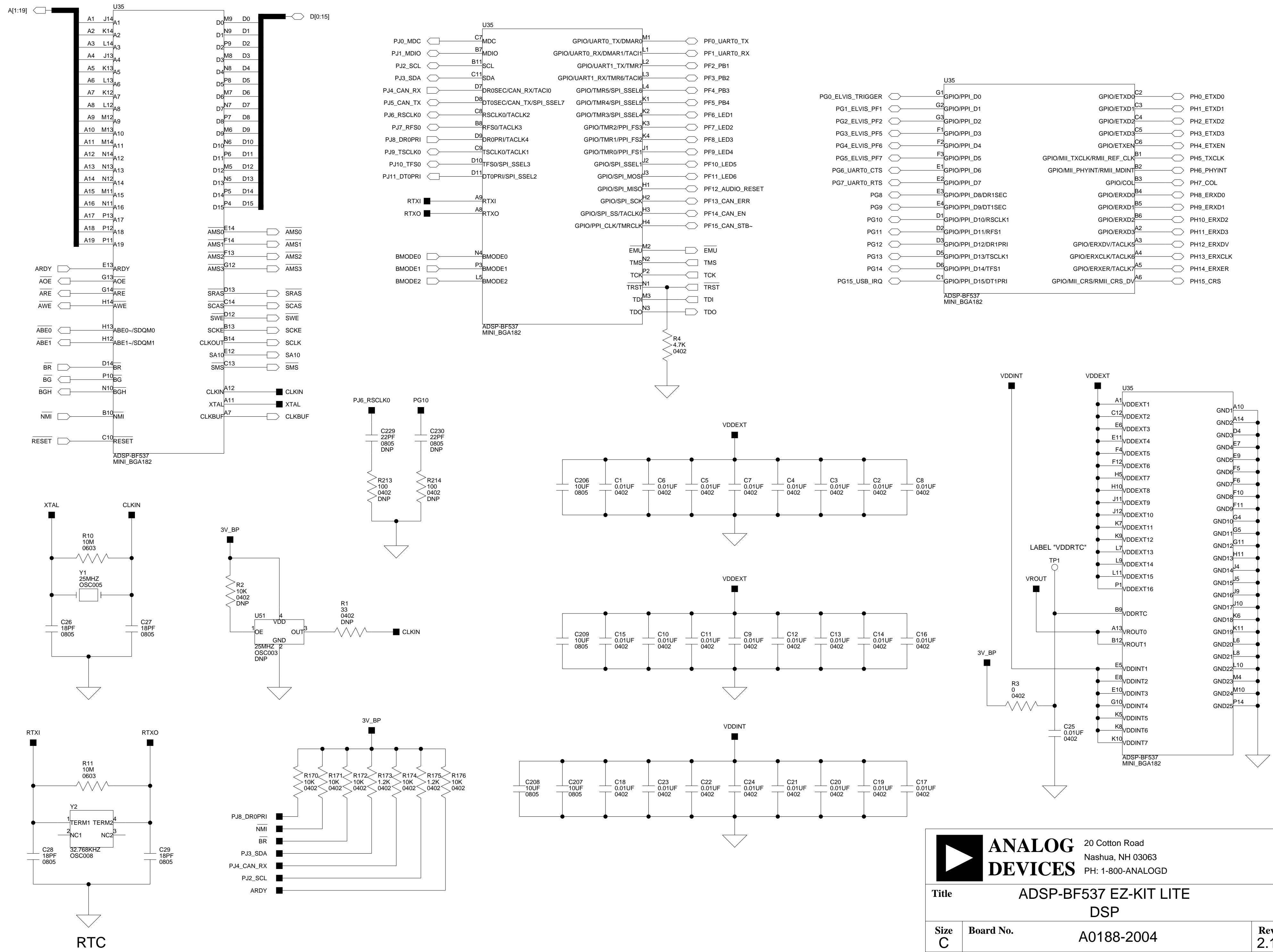
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<b>Title</b>		ADSP-BF537 EZ-KIT LITE TITLE	
<b>Size</b> C	<b>Board No.</b>	A0188-2004	<b>Rev</b> 2.1
<b>Date</b>	5-25-2006_14:03	<b>Sheet</b>	1 of 11

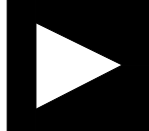
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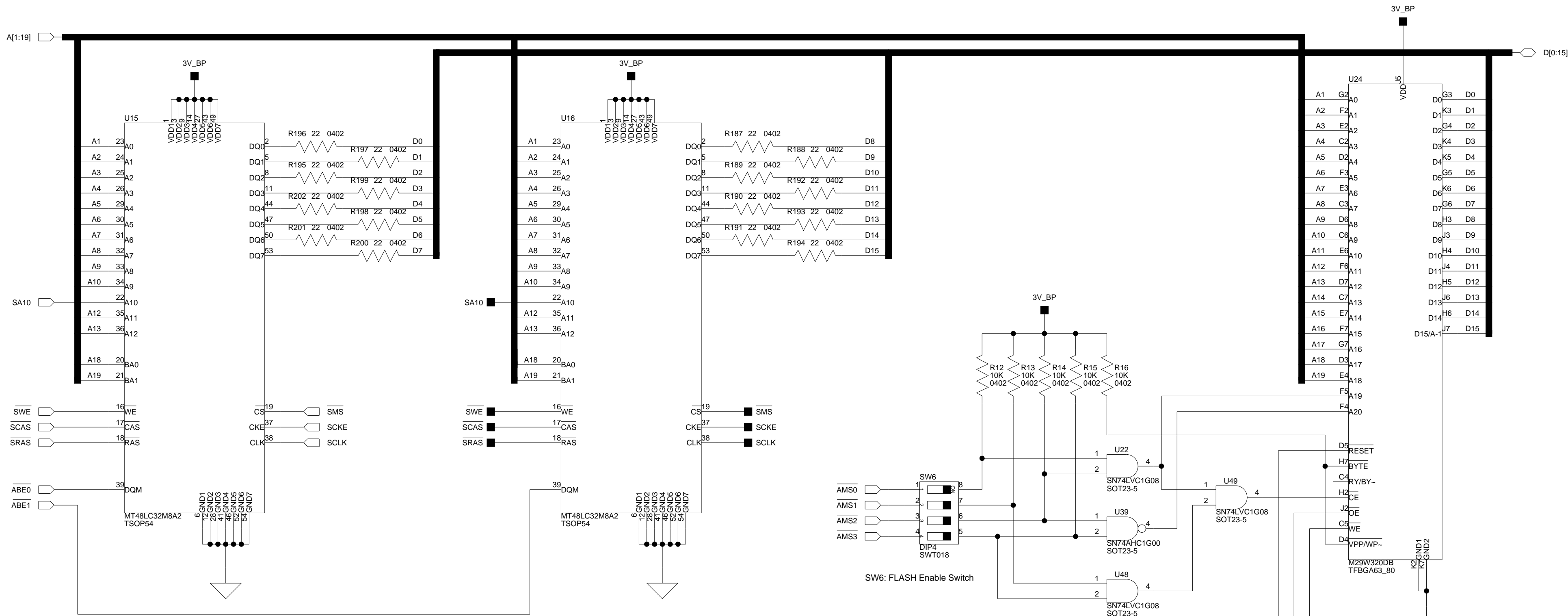
B

C

D



 <b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-BF537 EZ-KIT LITE <b>DSP</b>	
<b>Size</b> <b>C</b>	<b>Board No.</b> A0188-2004	<b>Rev</b> 2.1	
<b>Date</b> 5-25-2006_14:03	<b>Sheet</b> 2 of 11		

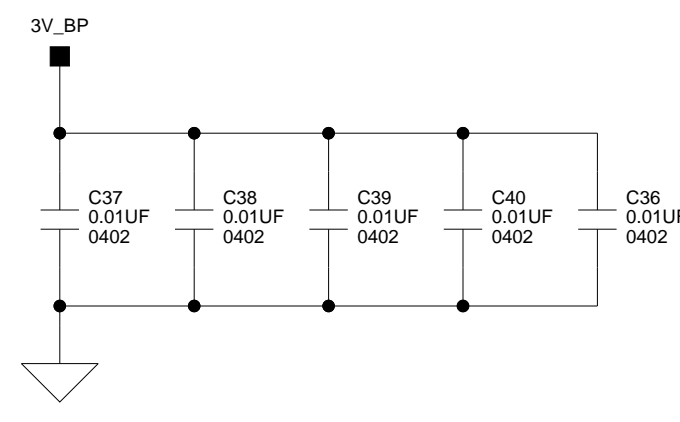
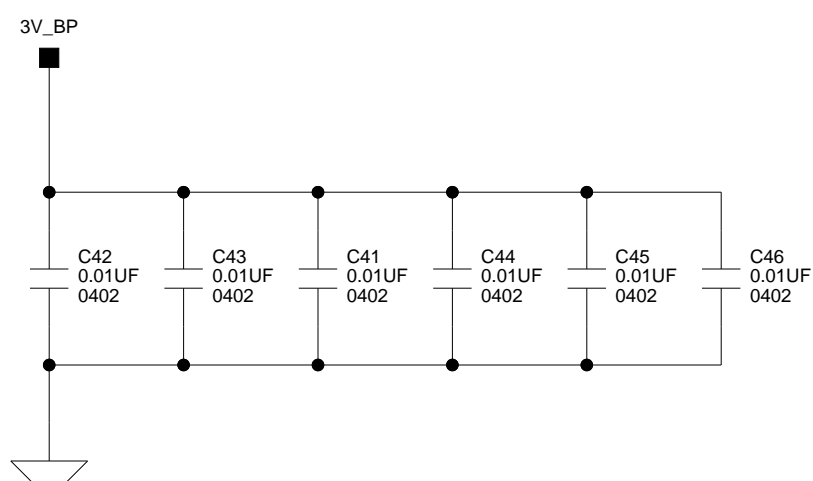
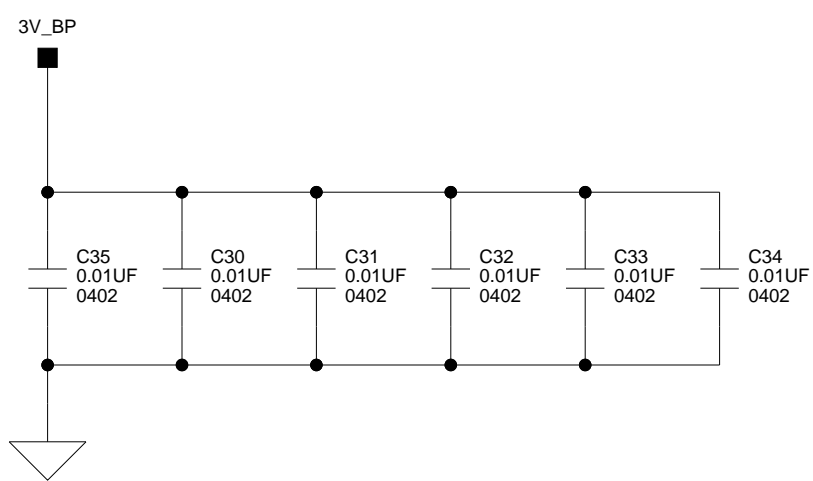


64 MB SDRAM  
(8M x 8 x 4 banks) x 2 chips

4 MB FLASH  
(2M x 16)

Memory Map

START	END	BANK	DEVICE
0x0000 0000	0x03FF FFFF	SDRAM Bank 0	64MB SDRAM
0x2000 0000	0x200F FFFF	ASYNC Memory Bank 0	1 MB FLASH
0x2010 0000	0x201F FFFF	ASYNC Memory Bank 1	1 MB FLASH
0x2020 0000	0x202F FFFF	ASYNC Memory Bank 2	1 MB FLASH
0x2030 0000	0x203F FFFF	ASYNC Memory Bank 3	1 MB FLASH



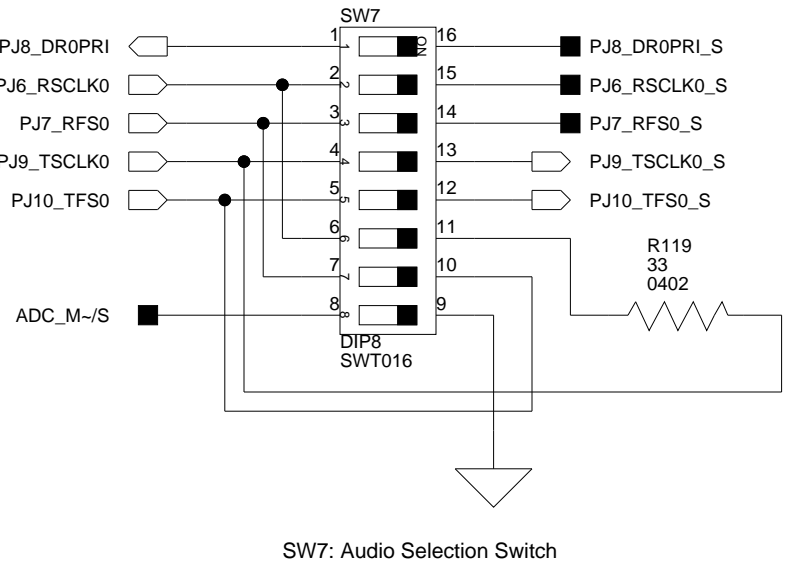
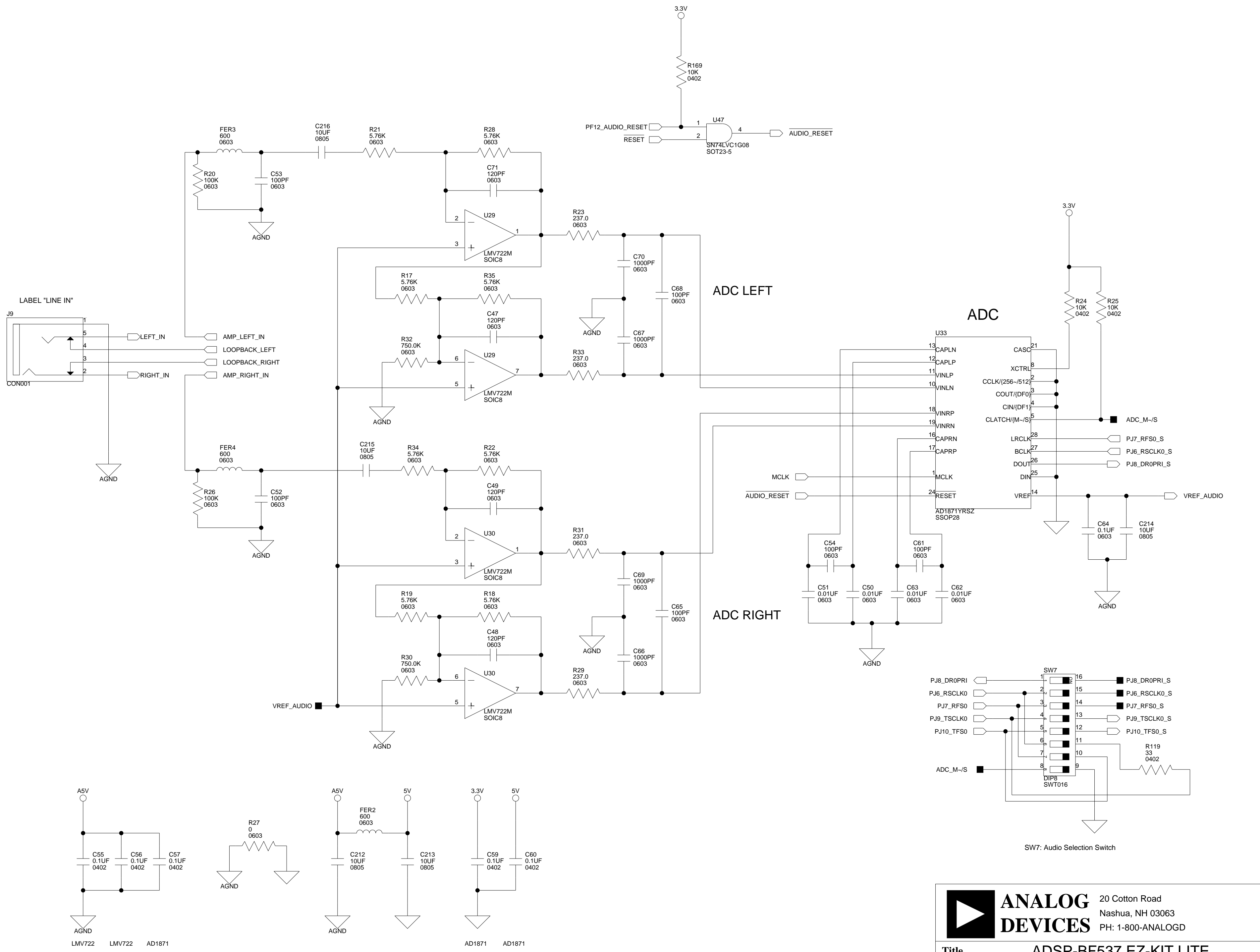
**ANALOG DEVICES**

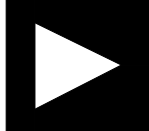
20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

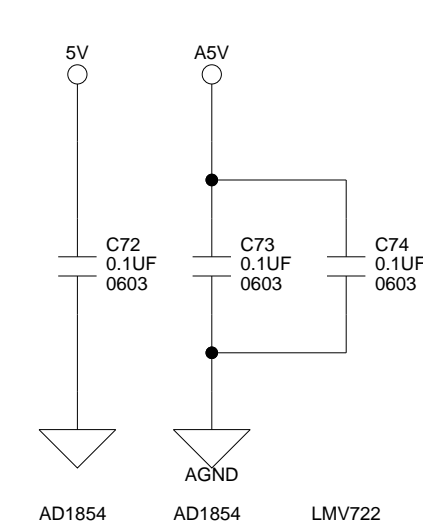
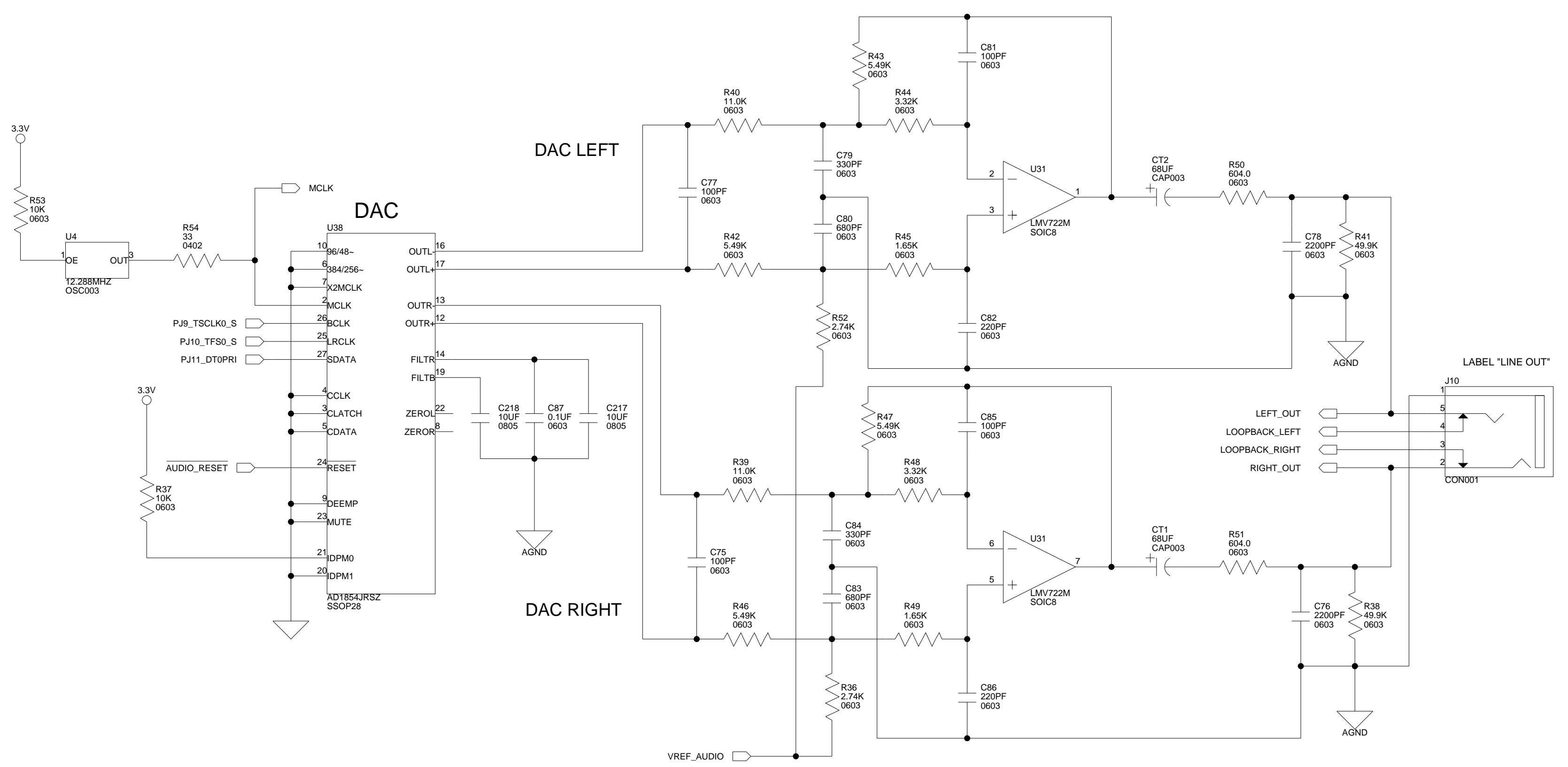
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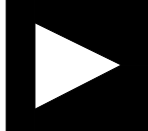
**Title** ADSP-BF537 EZ-KIT LITE  
SDRAM AND FLASH

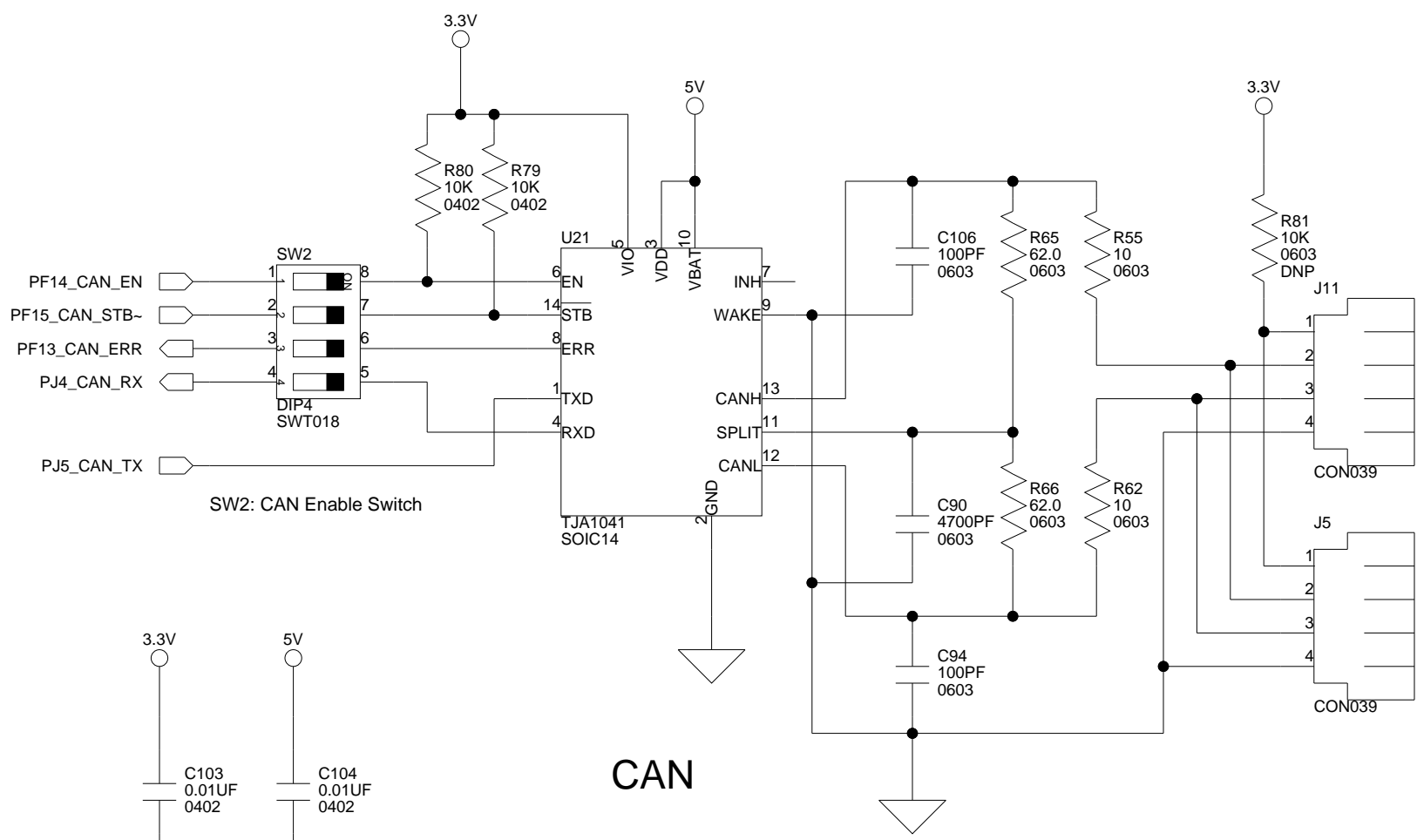
<b>Size</b> C	<b>Board No.</b> A0188-2004	<b>Rev</b> 2.1
<b>Date</b> 5-25-2006_14:03	<b>Sheet</b> 3 of 11	



 <b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD
<b>Title</b> ADSP-BF537 EZ-KIT LITE ADC AND AUDIO IN		
<b>Size</b> C	<b>Board No.</b> A0188-2004	<b>Rev</b> 2.1
<b>Date</b> 5-25-2006_14:03	<b>Sheet</b> 4 of 11	



 <b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-BF537 EZ-KIT LITE DAC AND AUDIO OUT	
<b>Size C</b>	<b>Board No.</b>	<b>Rev</b>	
<b>Date</b>	5-25-2006_14:03	<b>Sheet</b>	5 of 11



CAN

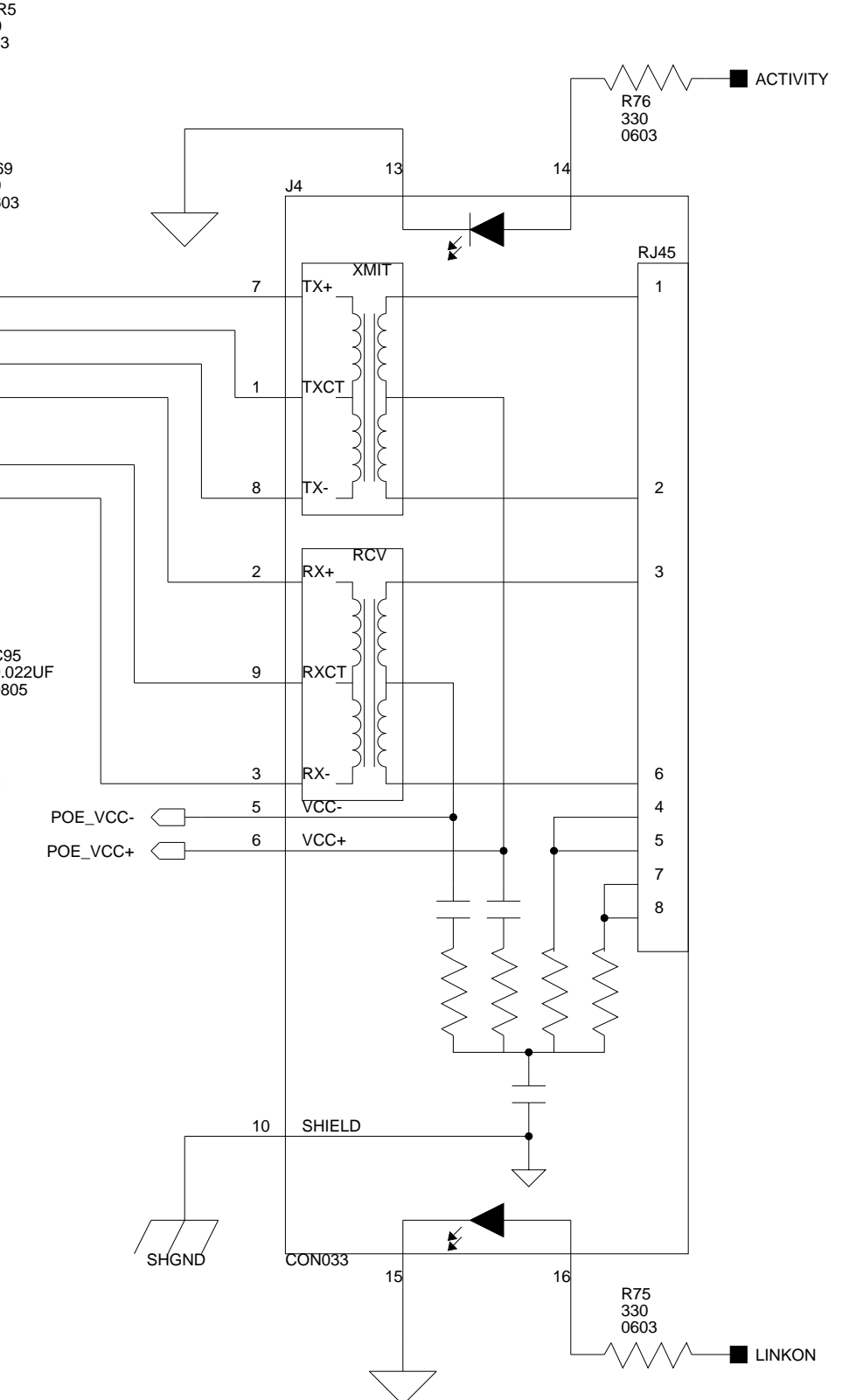
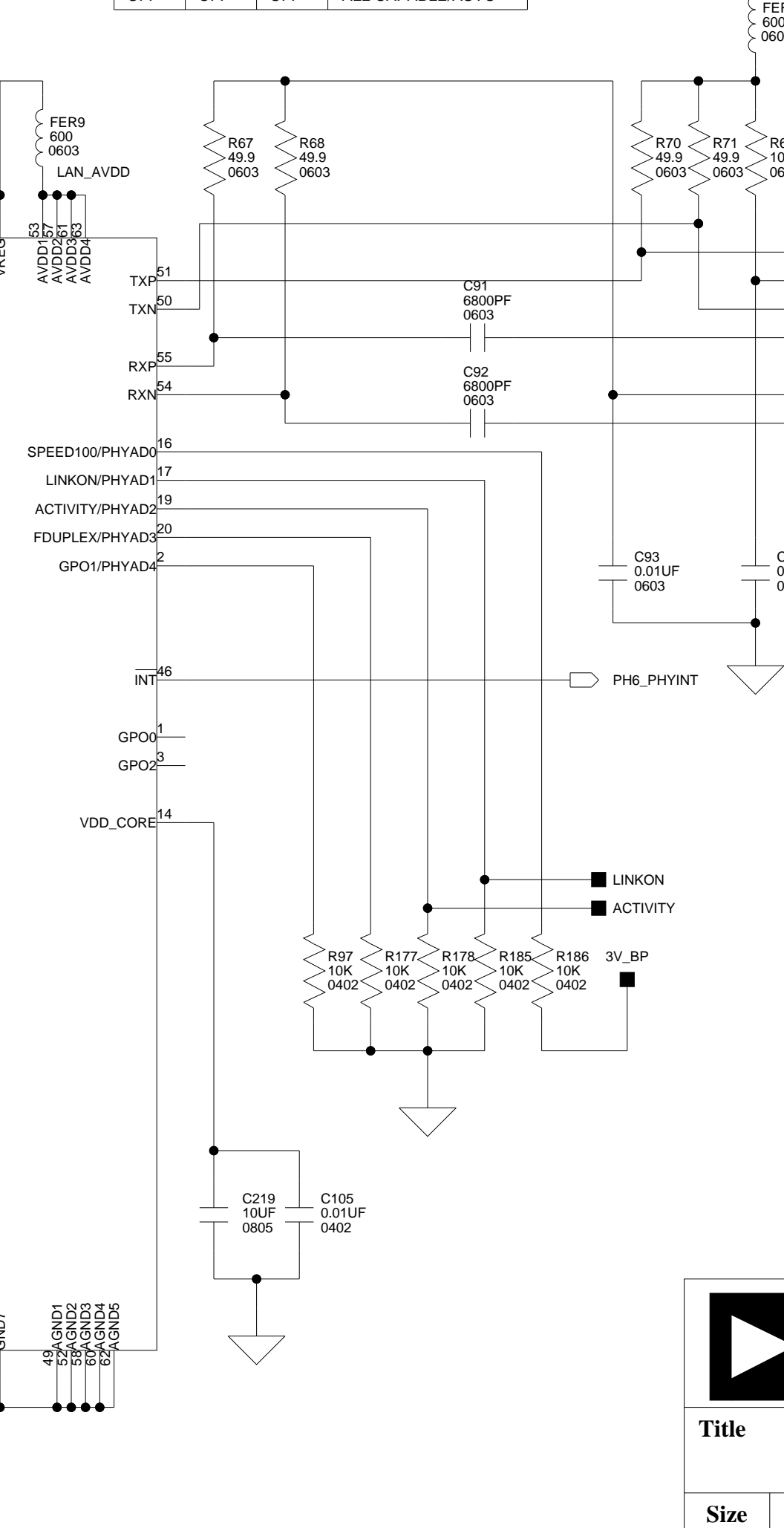
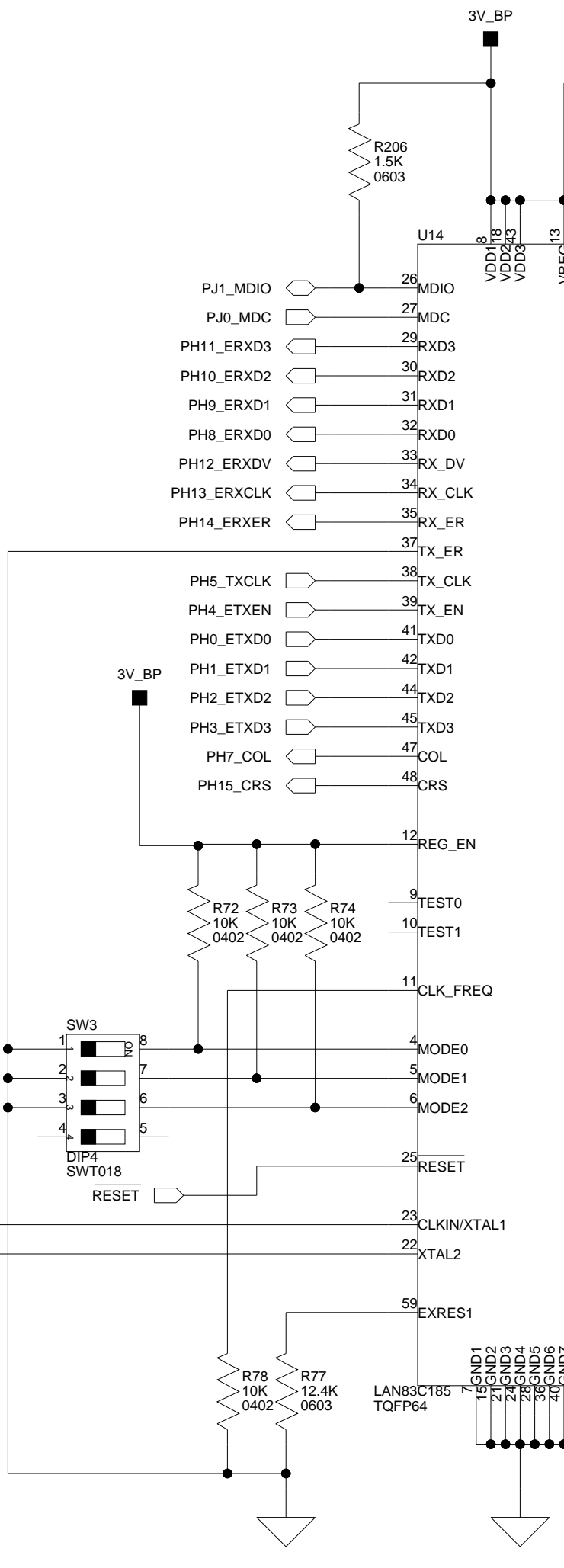
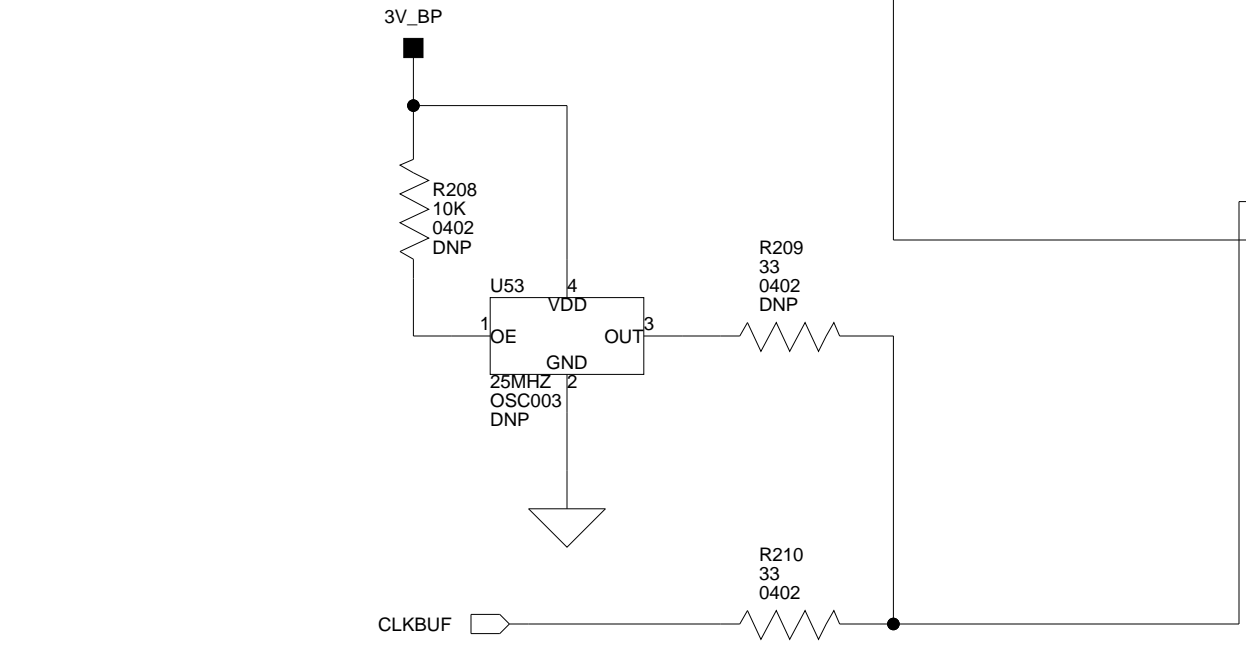
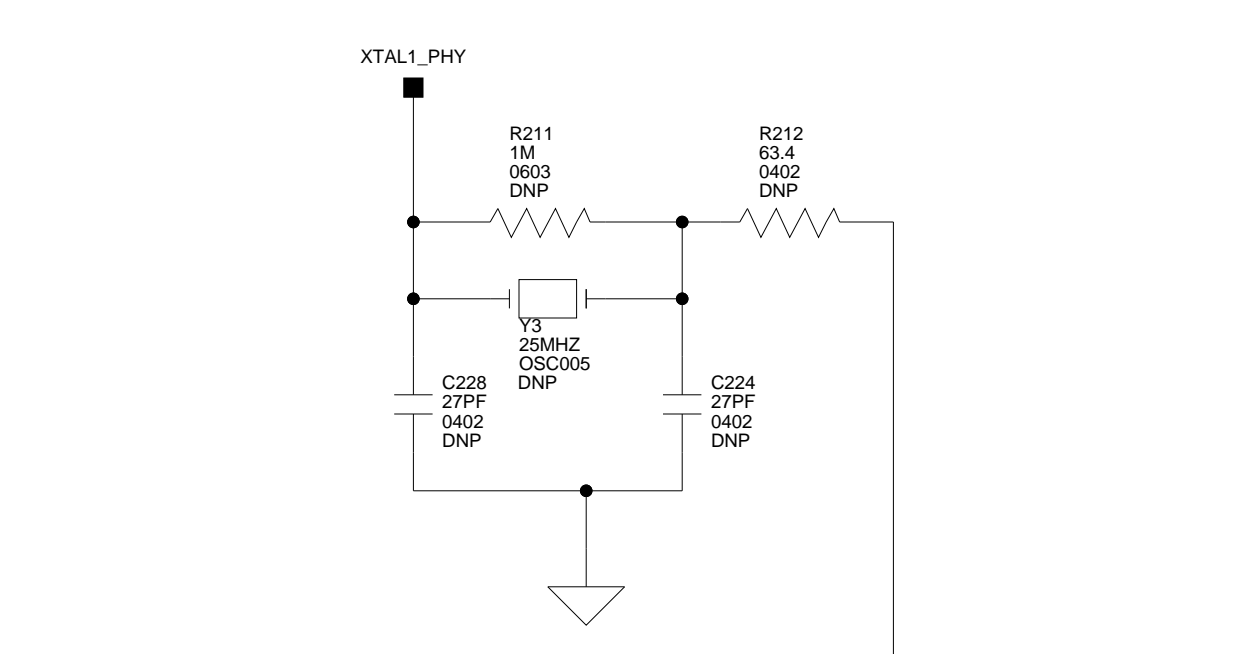
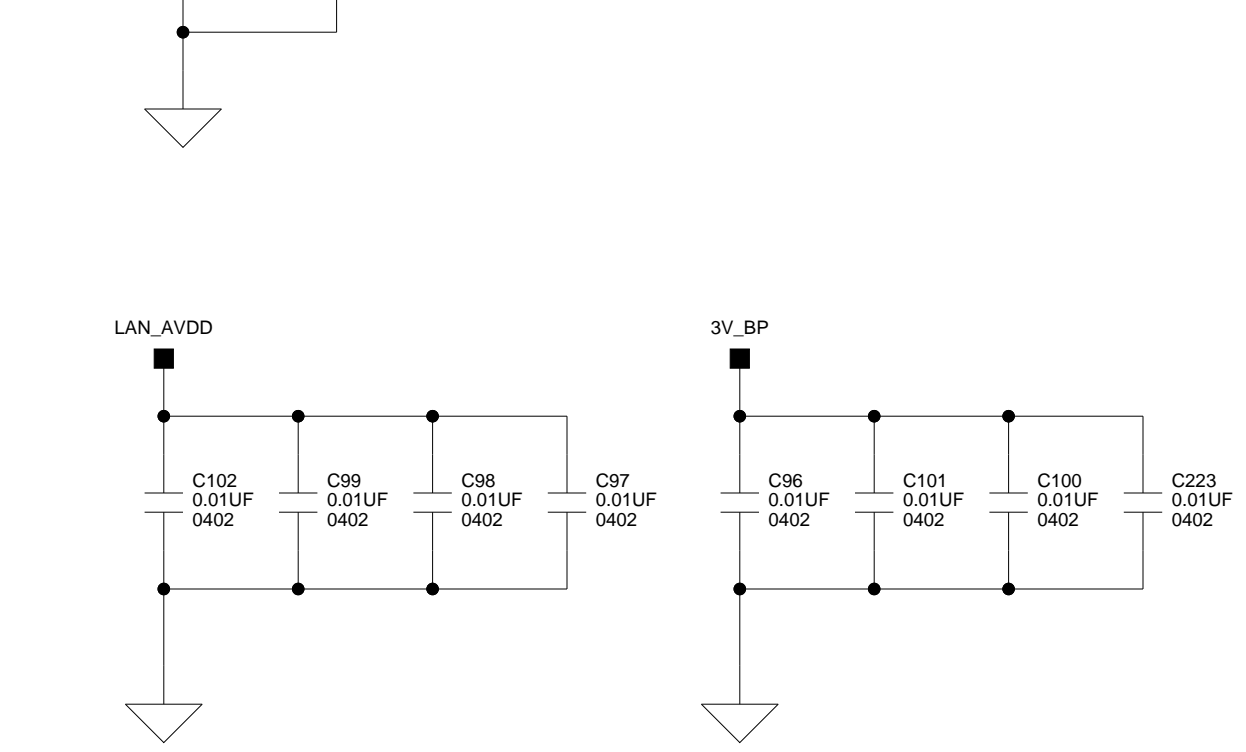
LABEL "CAN"

SW3: Ethernet Mode Selection Switch

1	2	3	ETHERNET MODE
MODE0	MODE1	MODE2	
ON	ON	ON	10B-T HALF
ON	ON	OFF	10B-T FULL
ON	OFF	ON	100B-T HALF
ON	OFF	OFF	100B-T FULL
OFF	ON	ON	100B-T HALF/AUTO
OFF	ON	OFF	REPEATER MODE/AUTO
OFF	OFF	ON	POWER DOWN
OFF	OFF	OFF	ALL CAPABLE/AUTO

DEFAULT

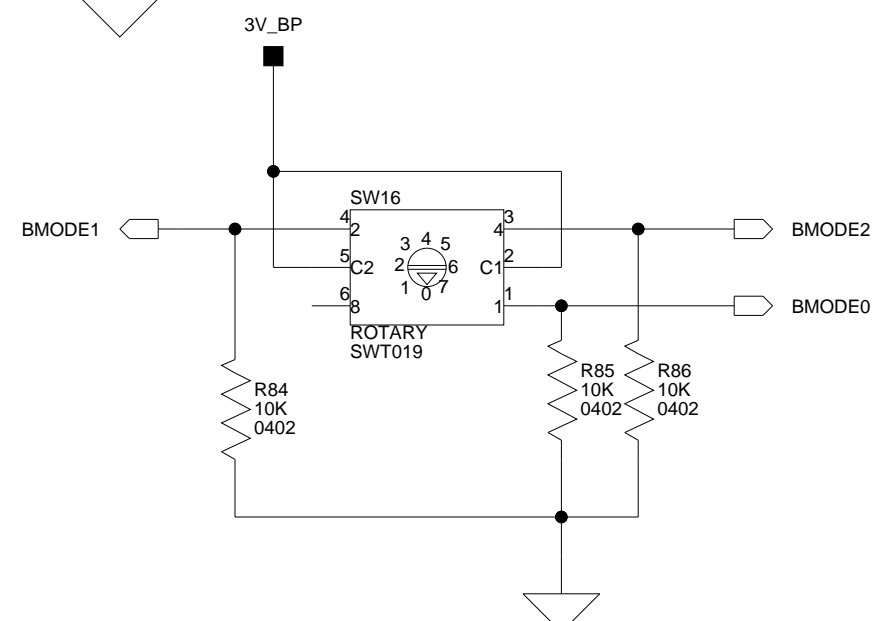
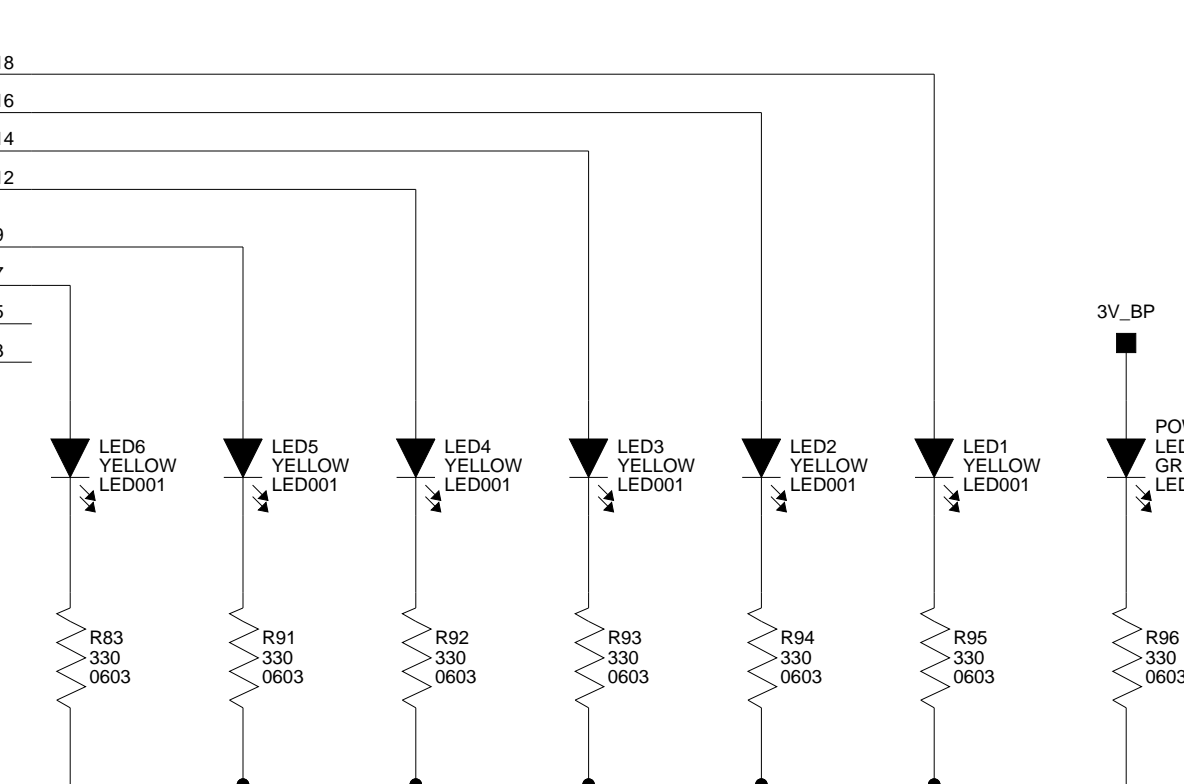
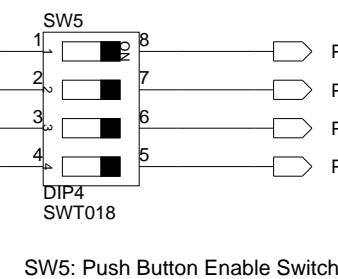
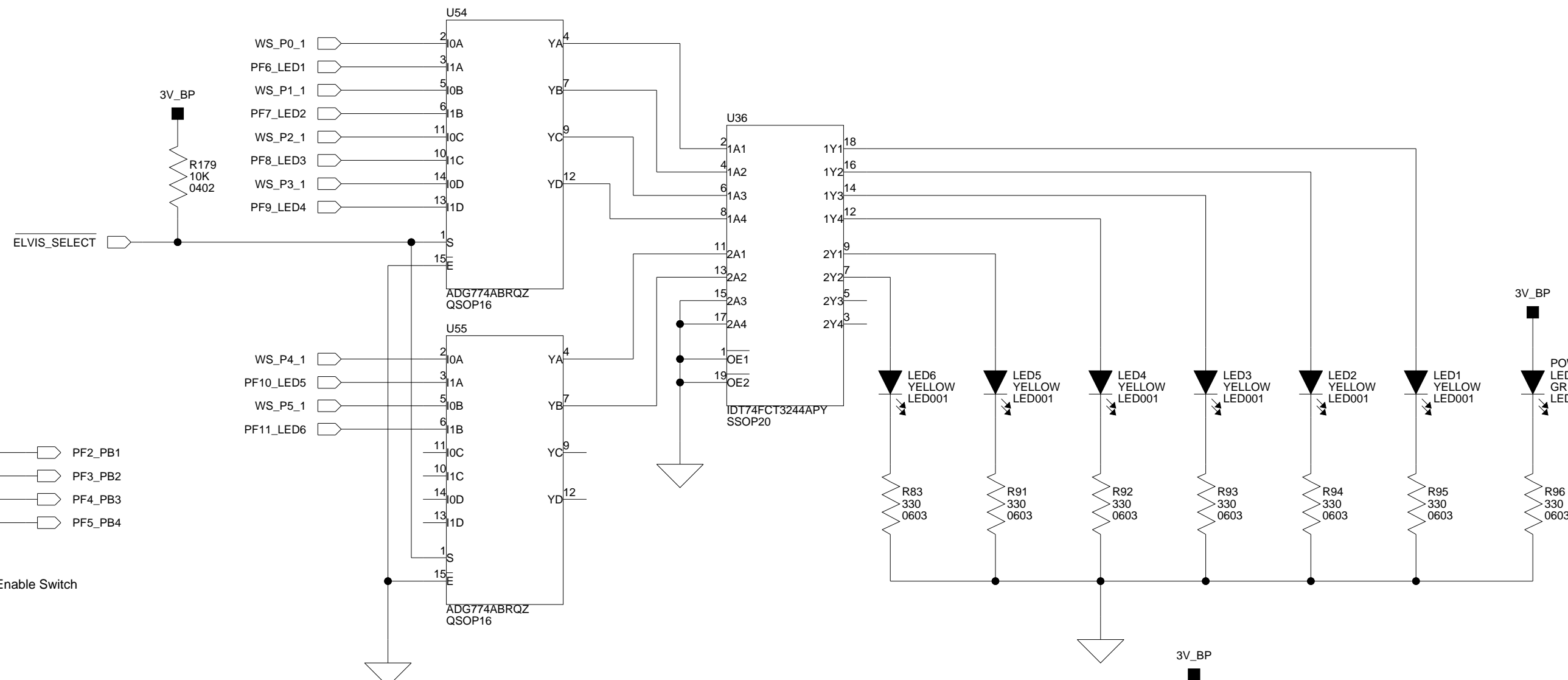
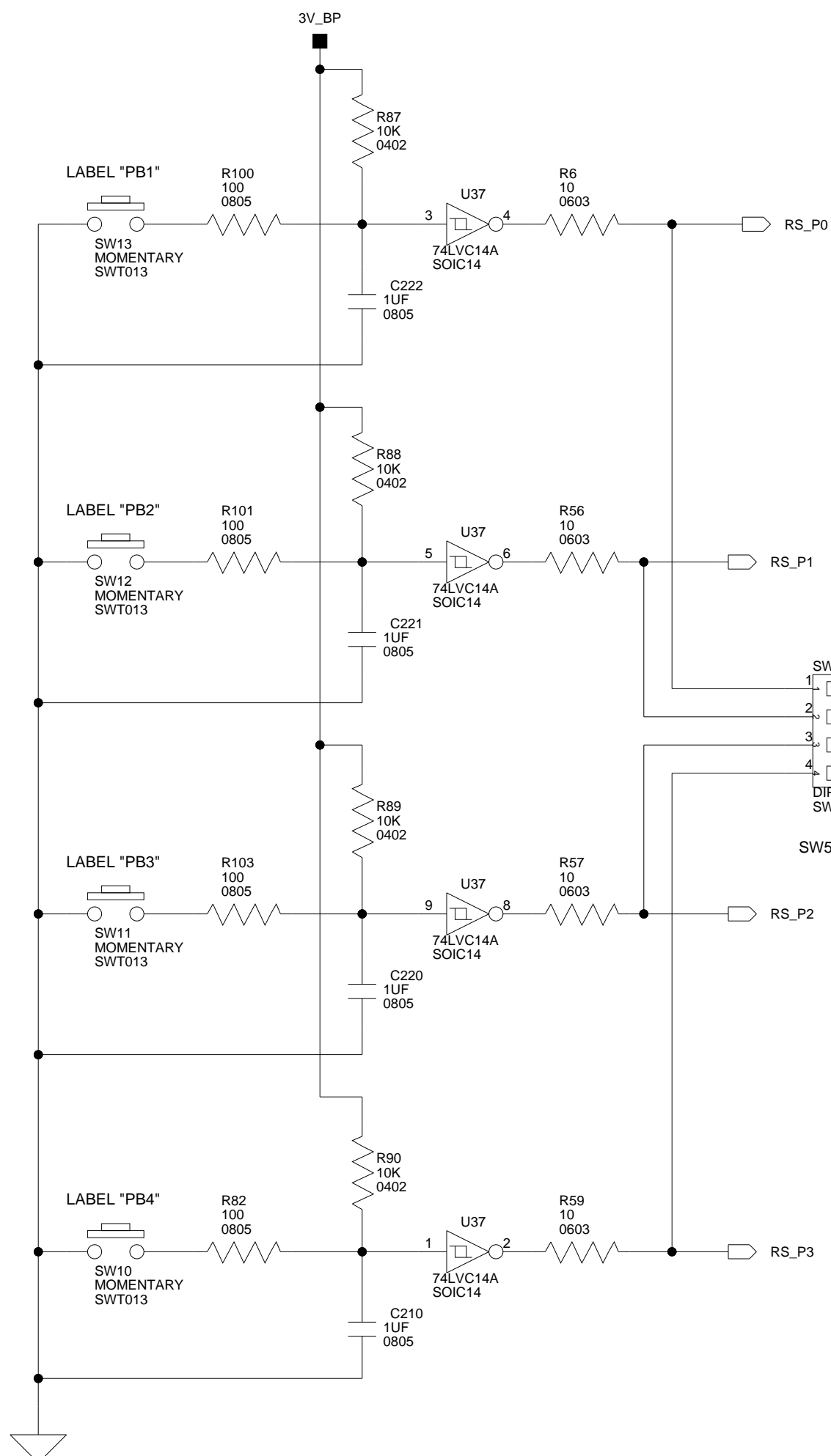
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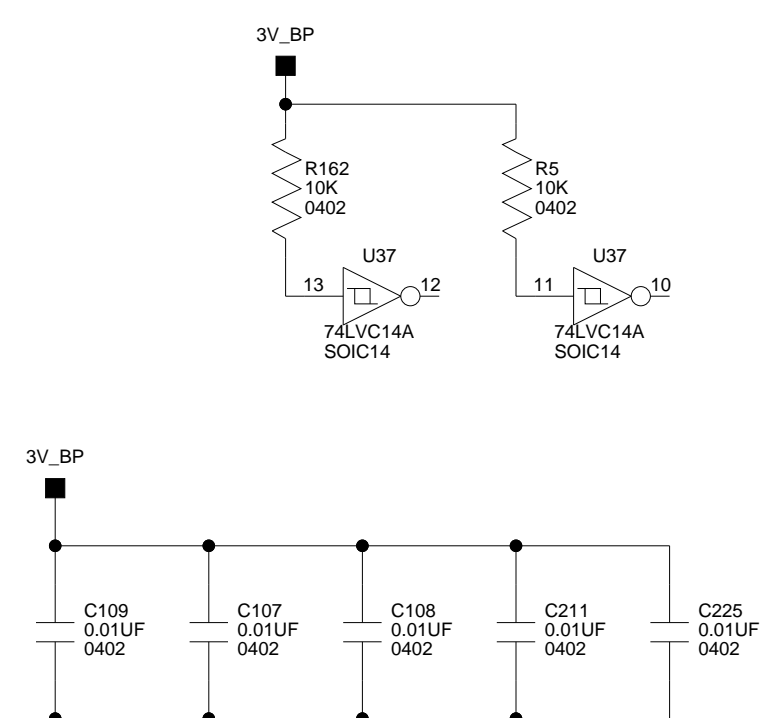
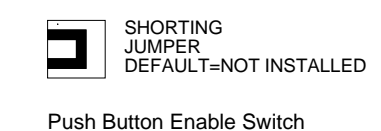
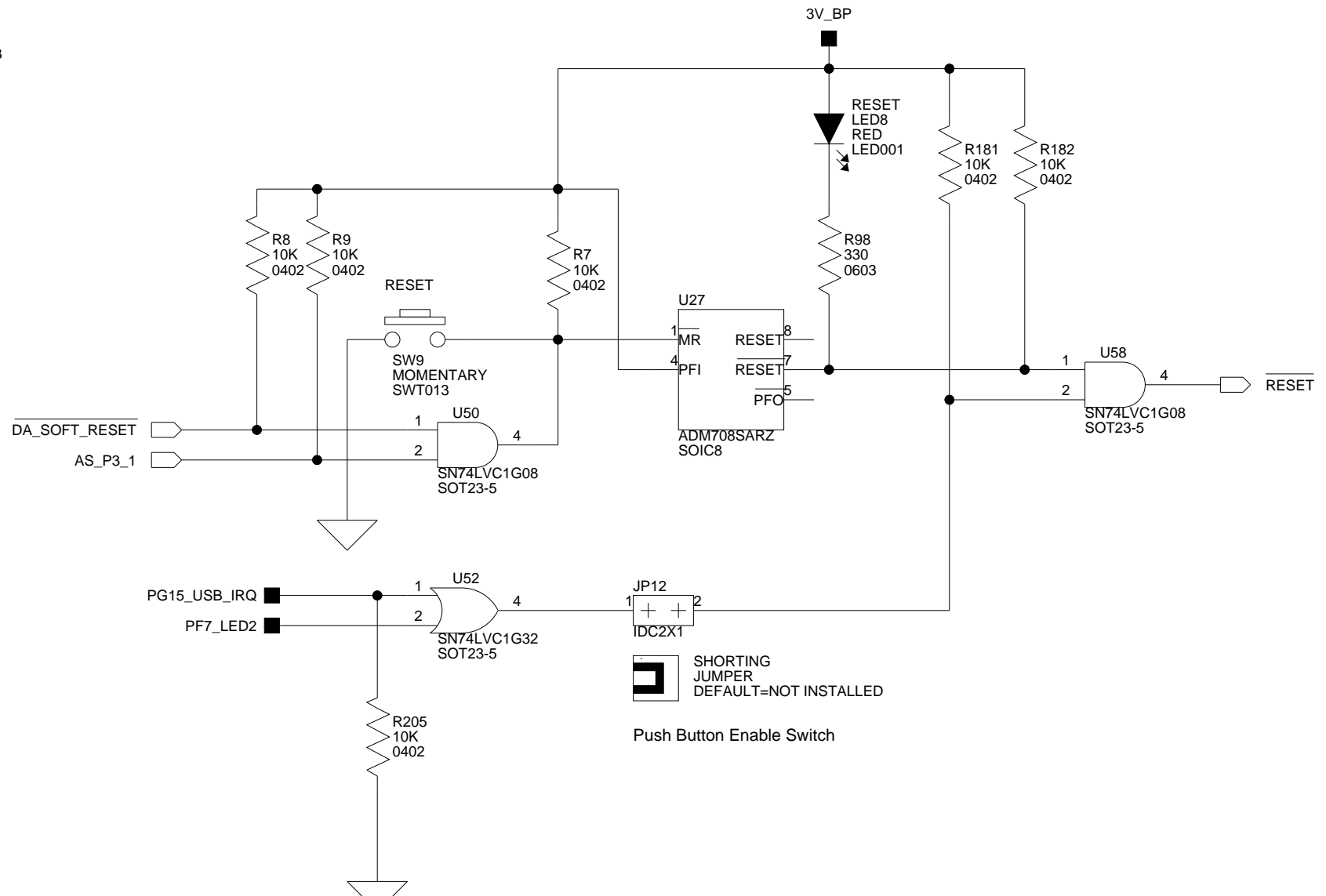
**ANALOG DEVICES**

20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

Title			<b>ADSP-BF537 EZ-KIT LITE ETHERNET AND CAN</b>		
Size	Board No.				Rev
C	A0188-2004				2.1
Date	5-25-2006_14:03	Sheet	6	of	11



POSITION	BOOT MODE
0	EXECUTE FROM 16-BIT EXTERNAL MEMORY
1	BOOT FROM 16-BIT FLASH MEMORY
2	RESERVED
3	BOOT FROM SPI MEMORY
4	BOOT FROM SPI HOST
5	BOOT FROM SERIAL TWI MEMORY
6	BOOT FROM TWI HOST
7	BOOT FROM UART HOST

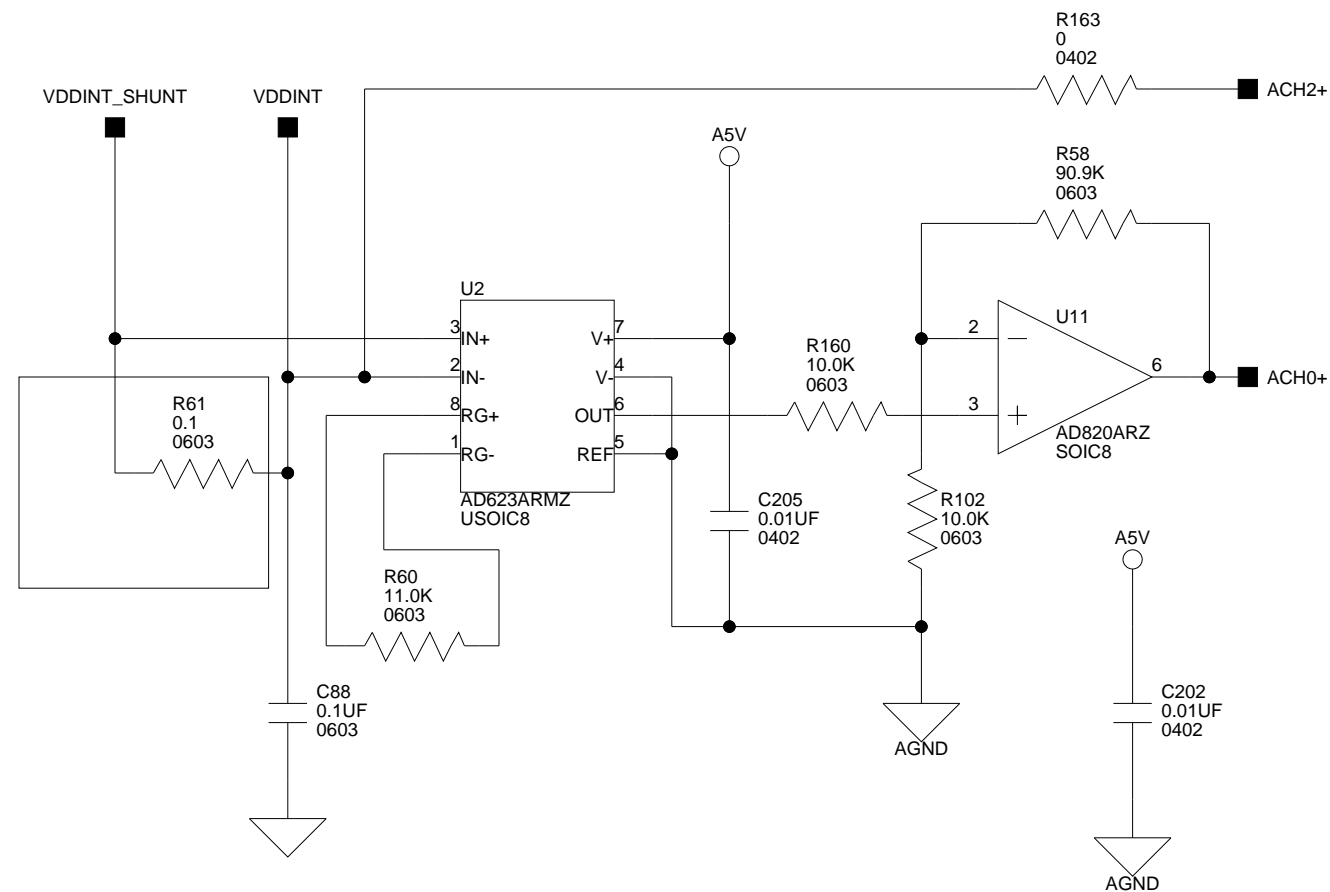


74LVC14A ADM708 IDT74FCT3244 QS3257 QS3257

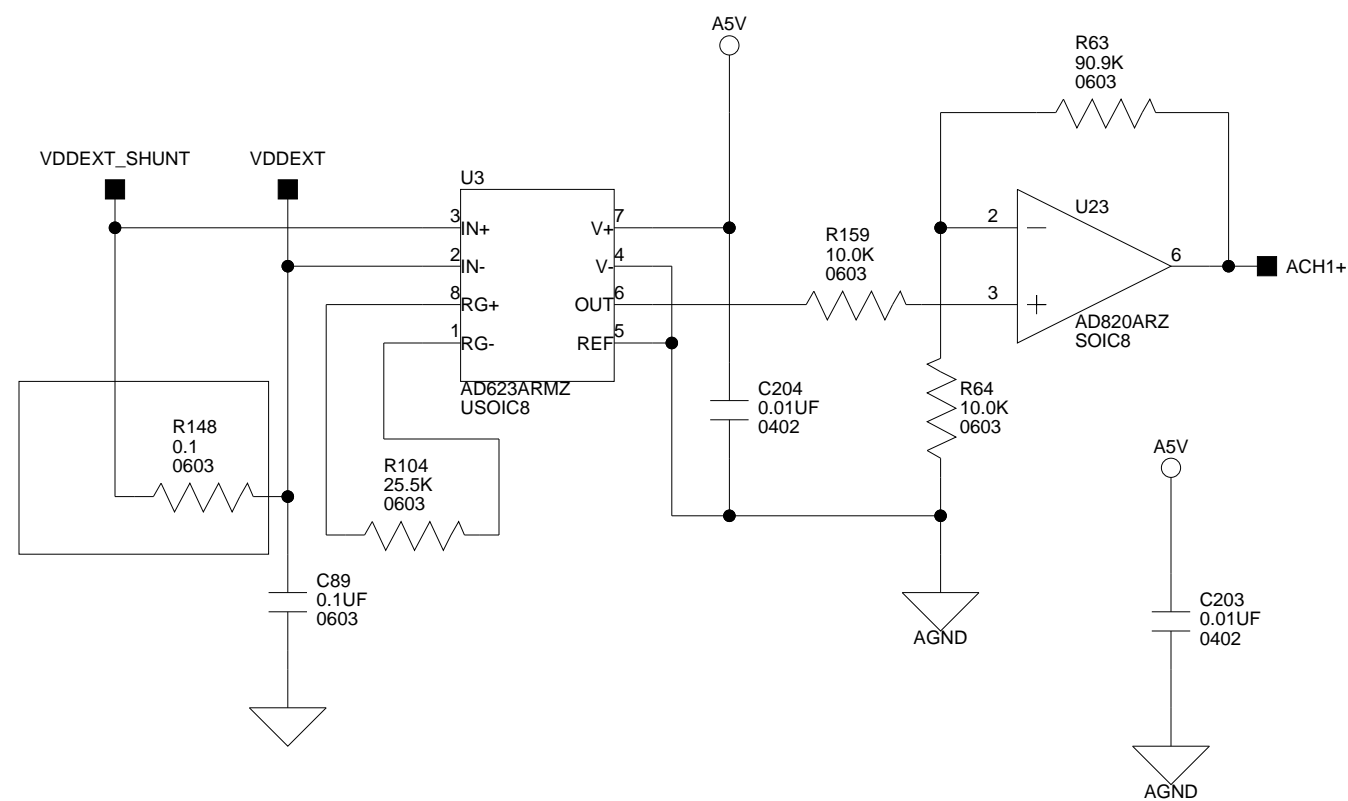
**ANALOG DEVICES**

20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

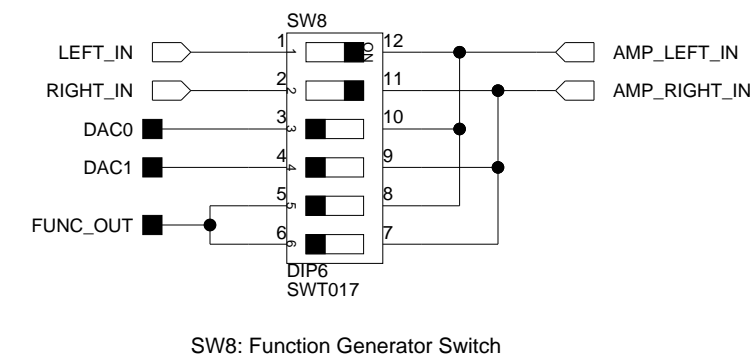
Title <b>ADSP-BF537 EZ-KIT LITE PUSH BUTTONS, LEDS AND BOOT MODE</b>		
Size <b>C</b>	Board No. <b>A0188-2004</b>	Rev <b>2.1</b>
Date <b>5-25-2006_14:02</b>	Sheet <b>7</b> of <b>11</b>	



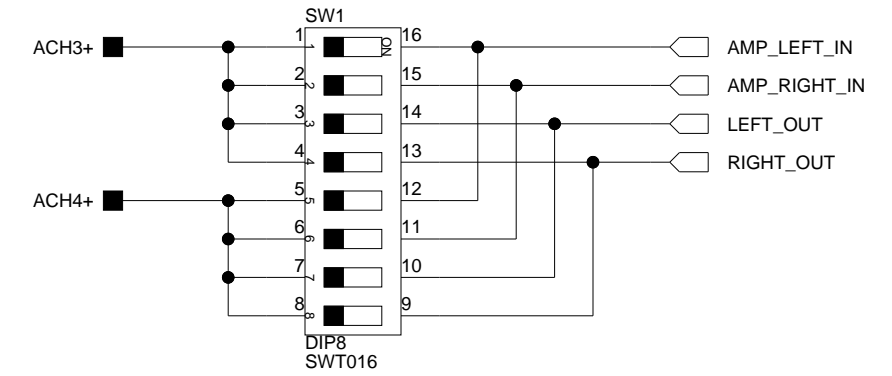
DSP CORE VOLTAGE & CURRENT



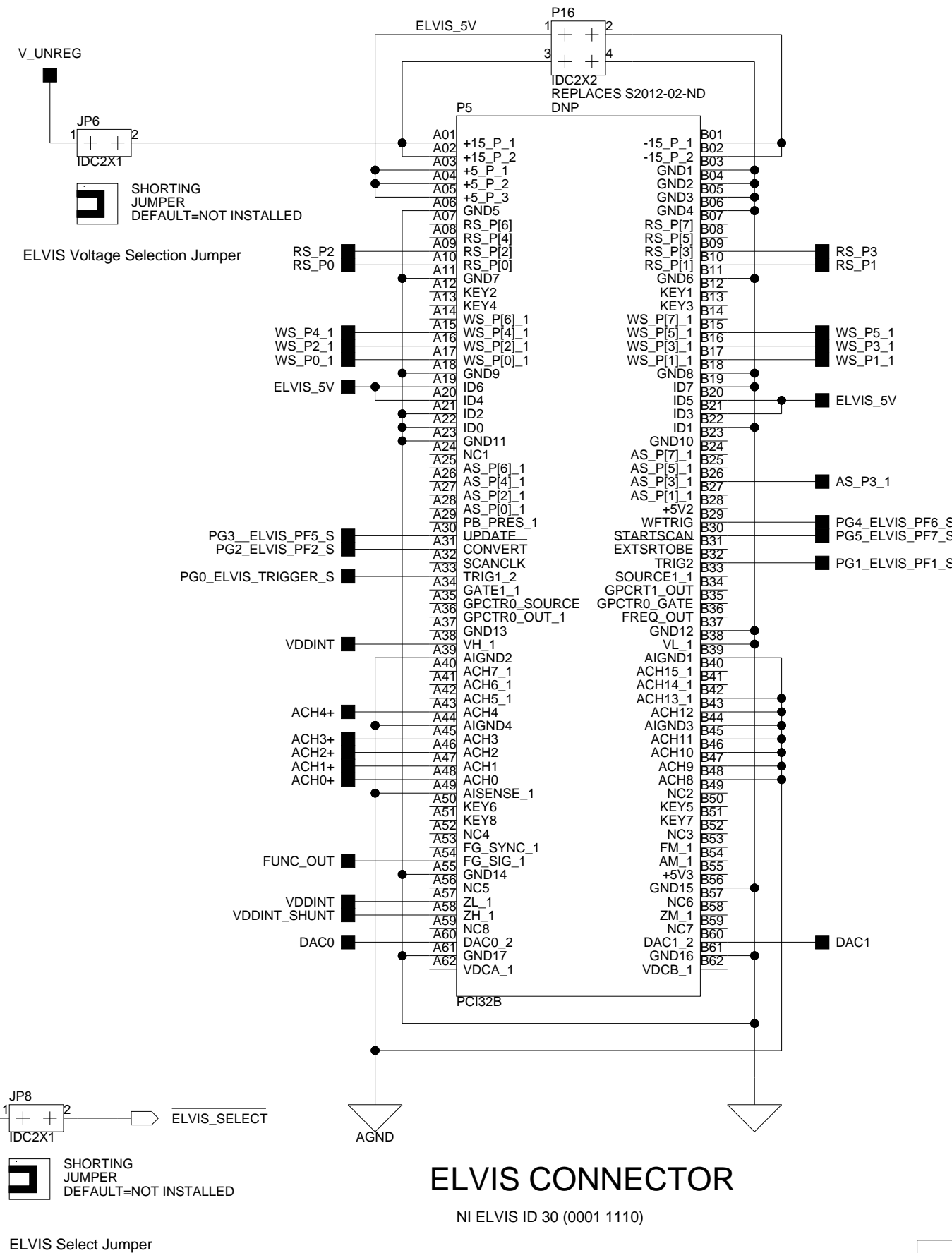
DSP IO CURRENT



SW8: Function Generator Switch

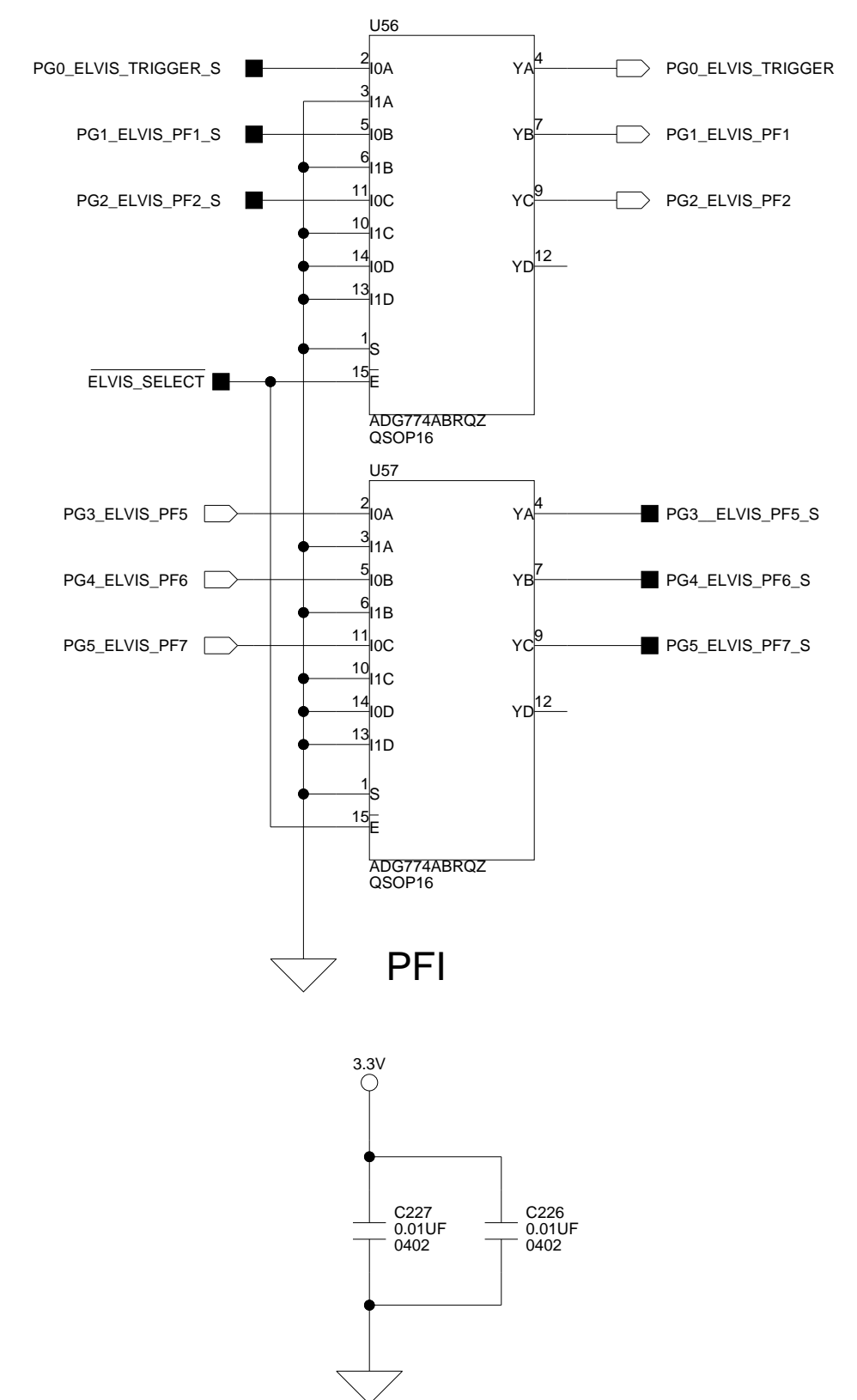


SW1: Oscilloscope Select Switch



ELVIS CONNECTOR

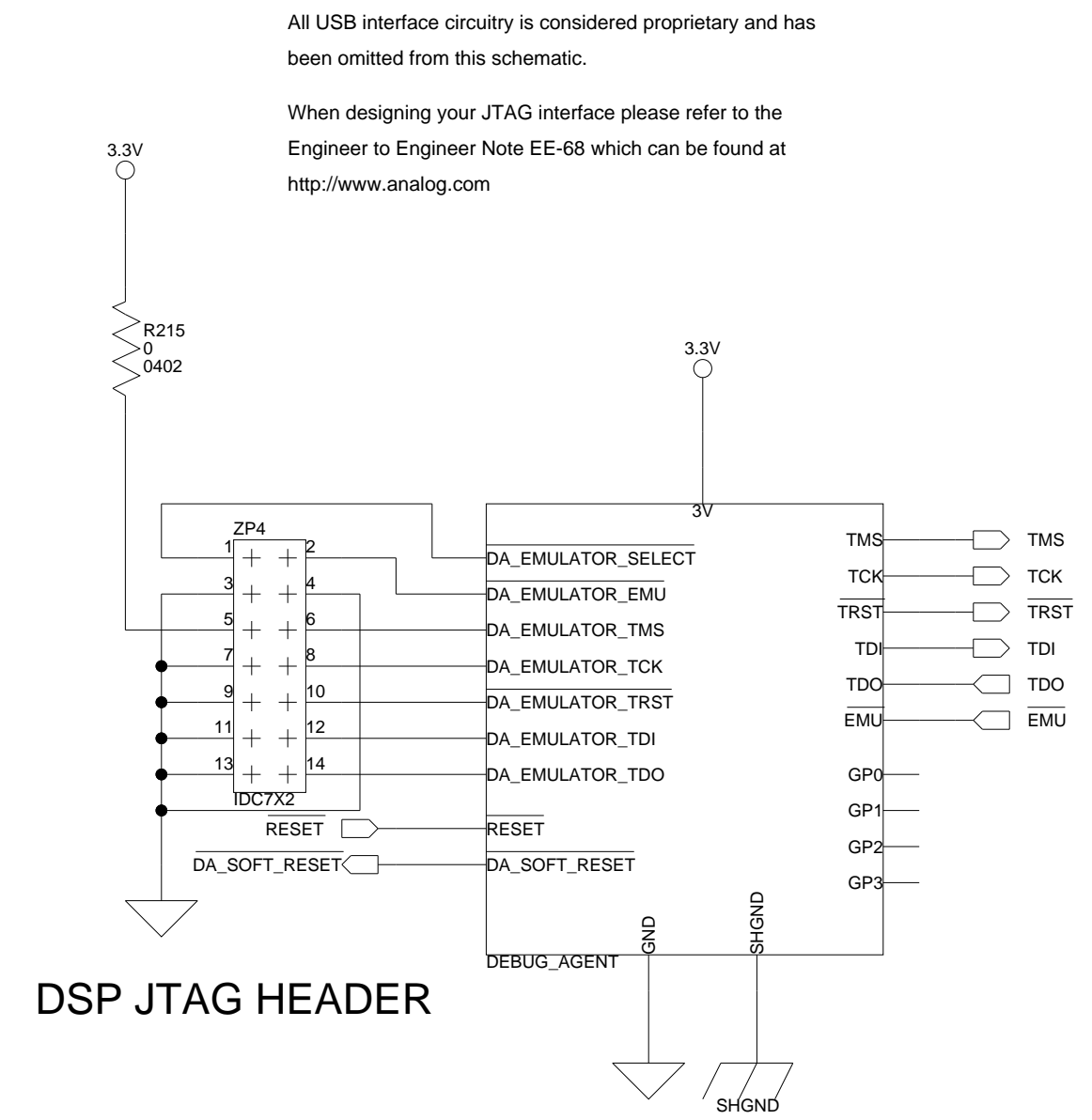
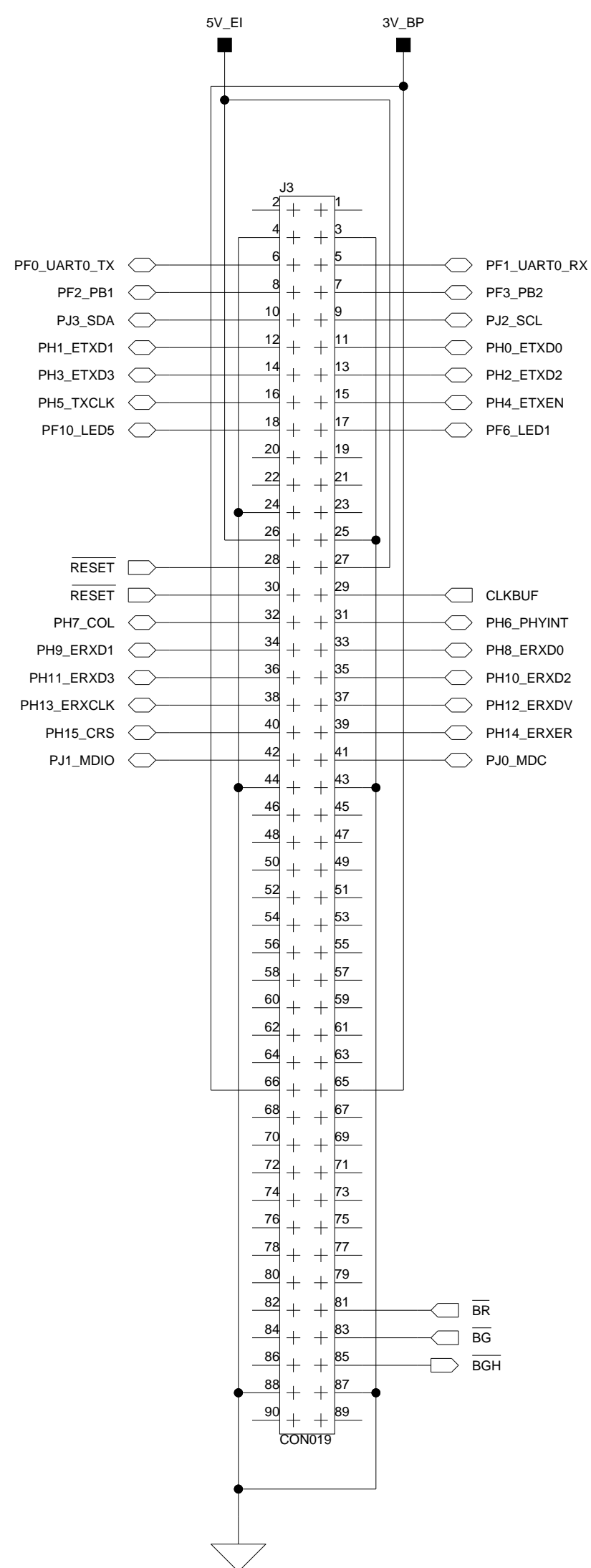
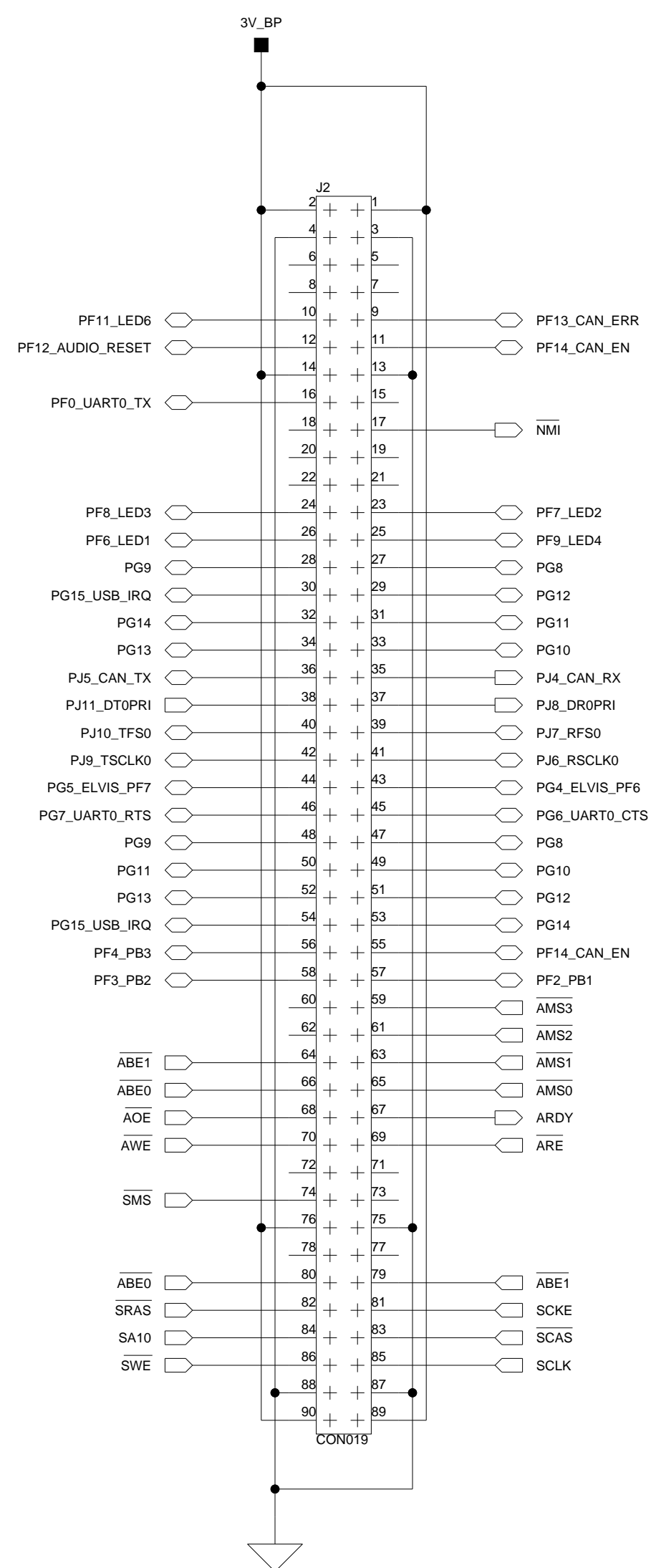
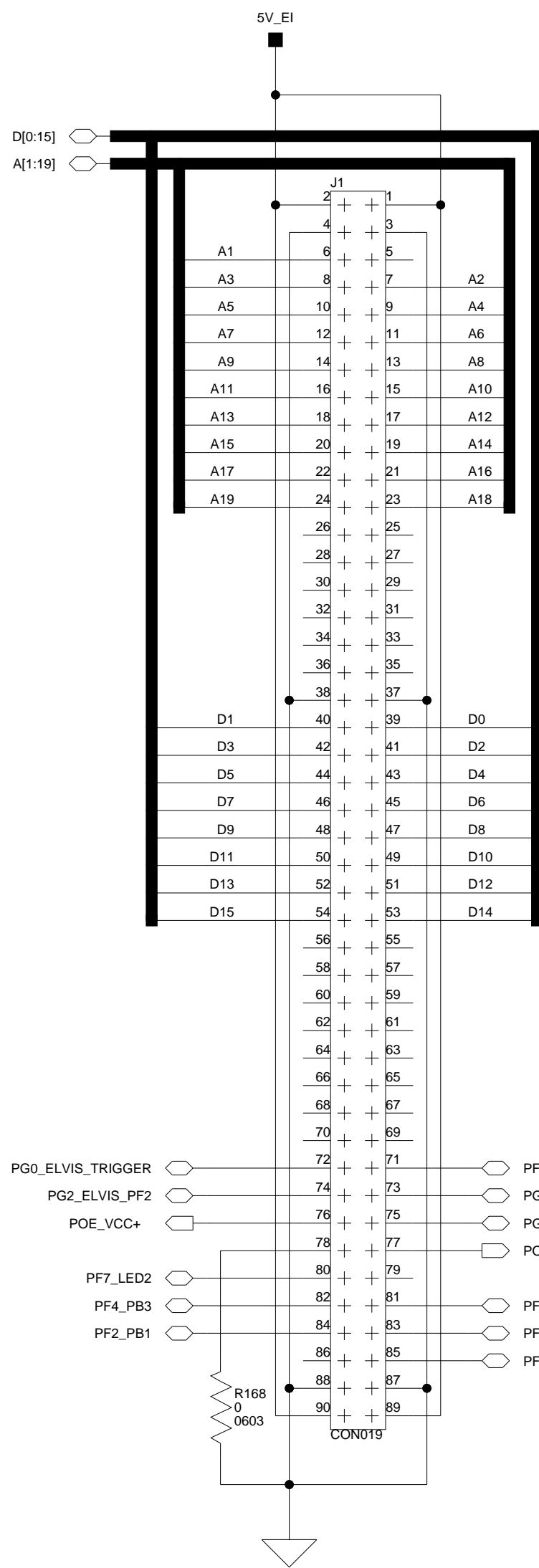
NI ELVIS ID 30 (0001 1110)



PFI

		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-BF537 EZ-KIT LITE ELVIS INTERFACE	
<b>Size C</b>	<b>Board No.</b> A0188-2004	<b>Rev</b> 2.1	
<b>Date</b> 5-25-2006_14:02	<b>Sheet</b> 8 of		<b>11</b>

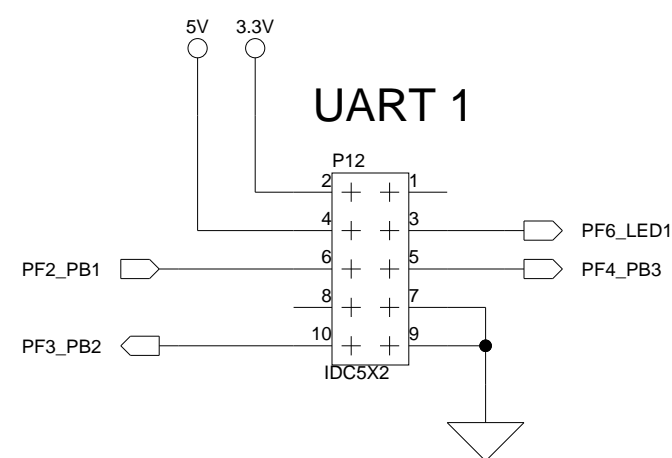
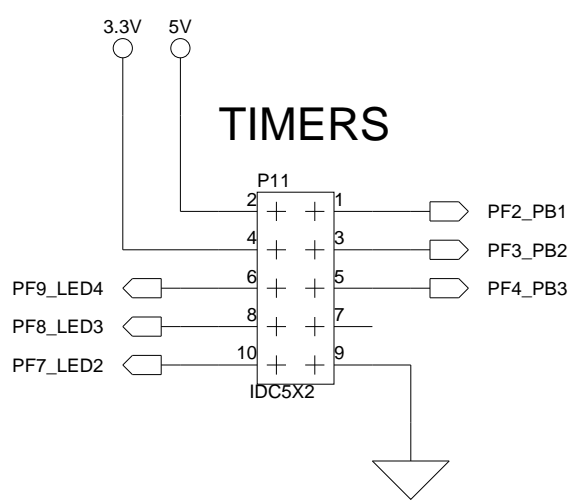
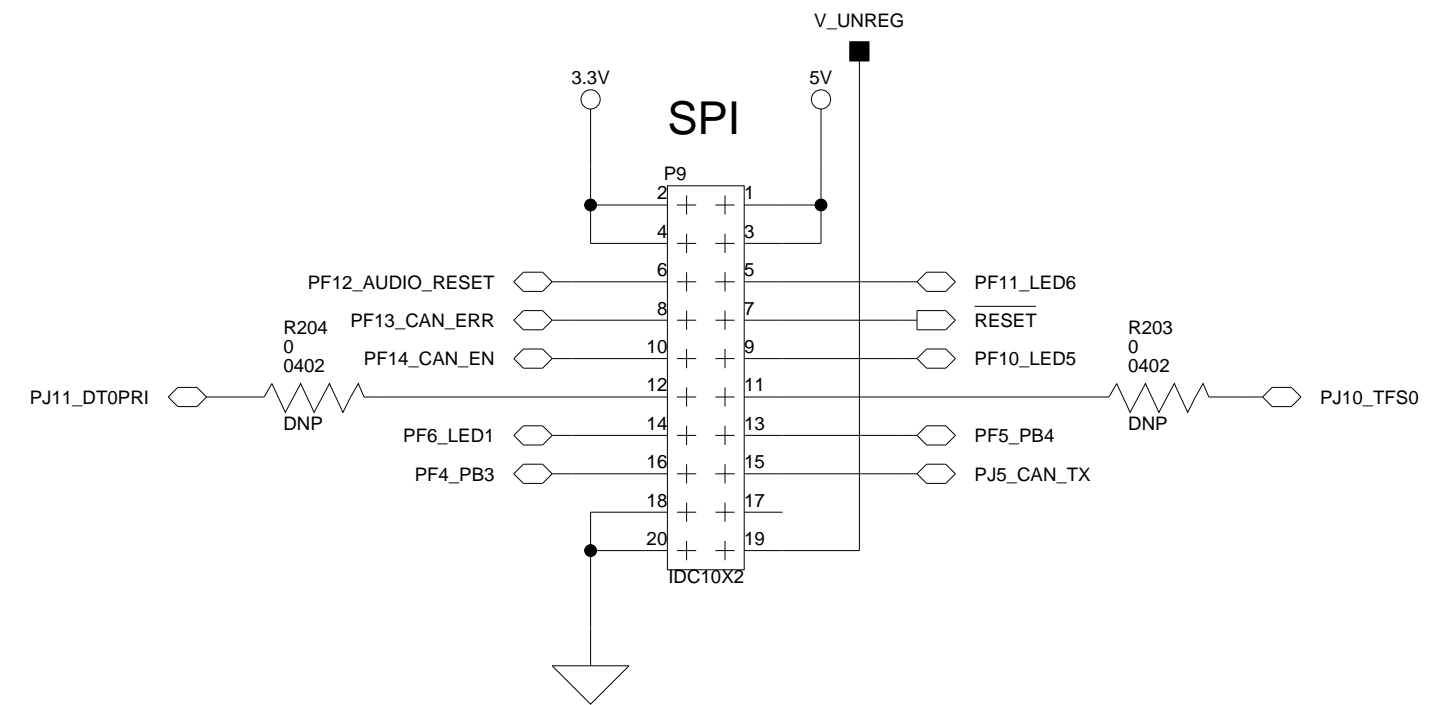
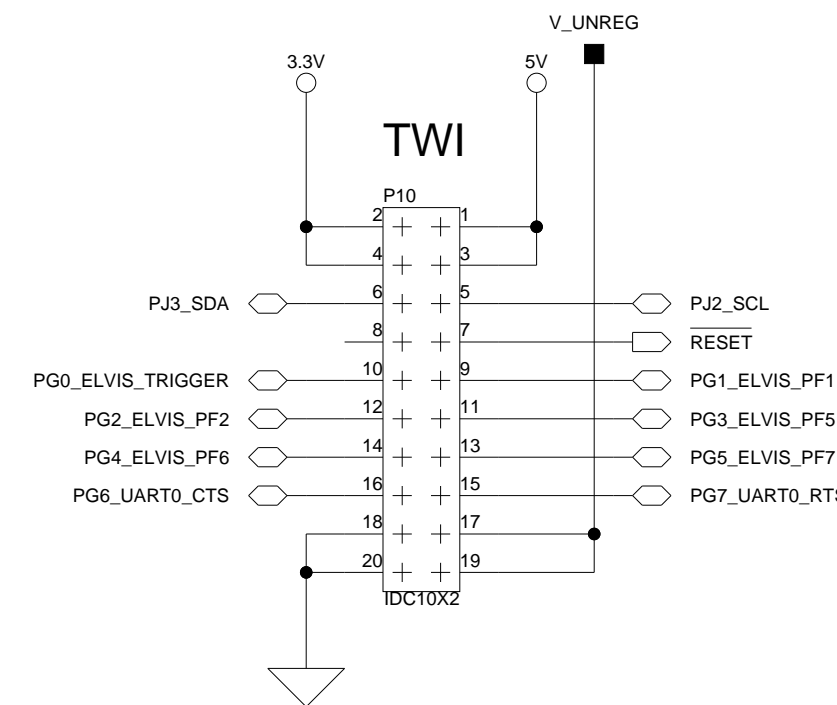
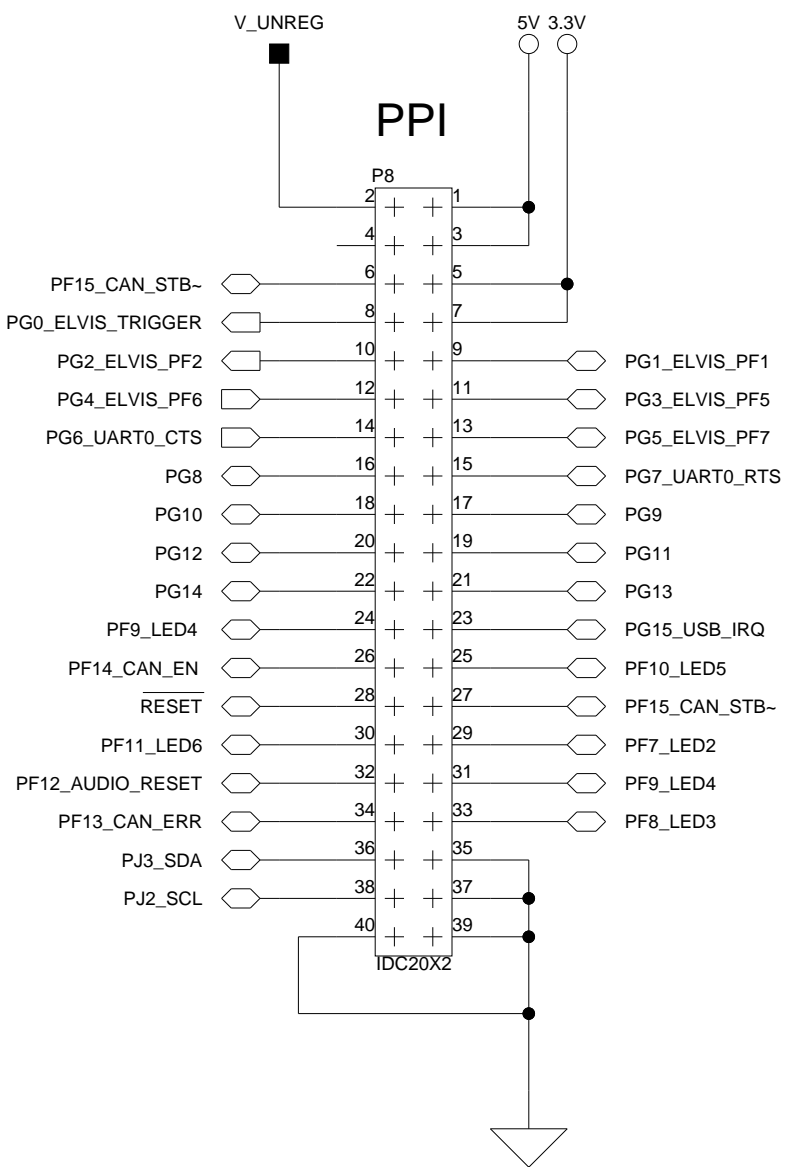
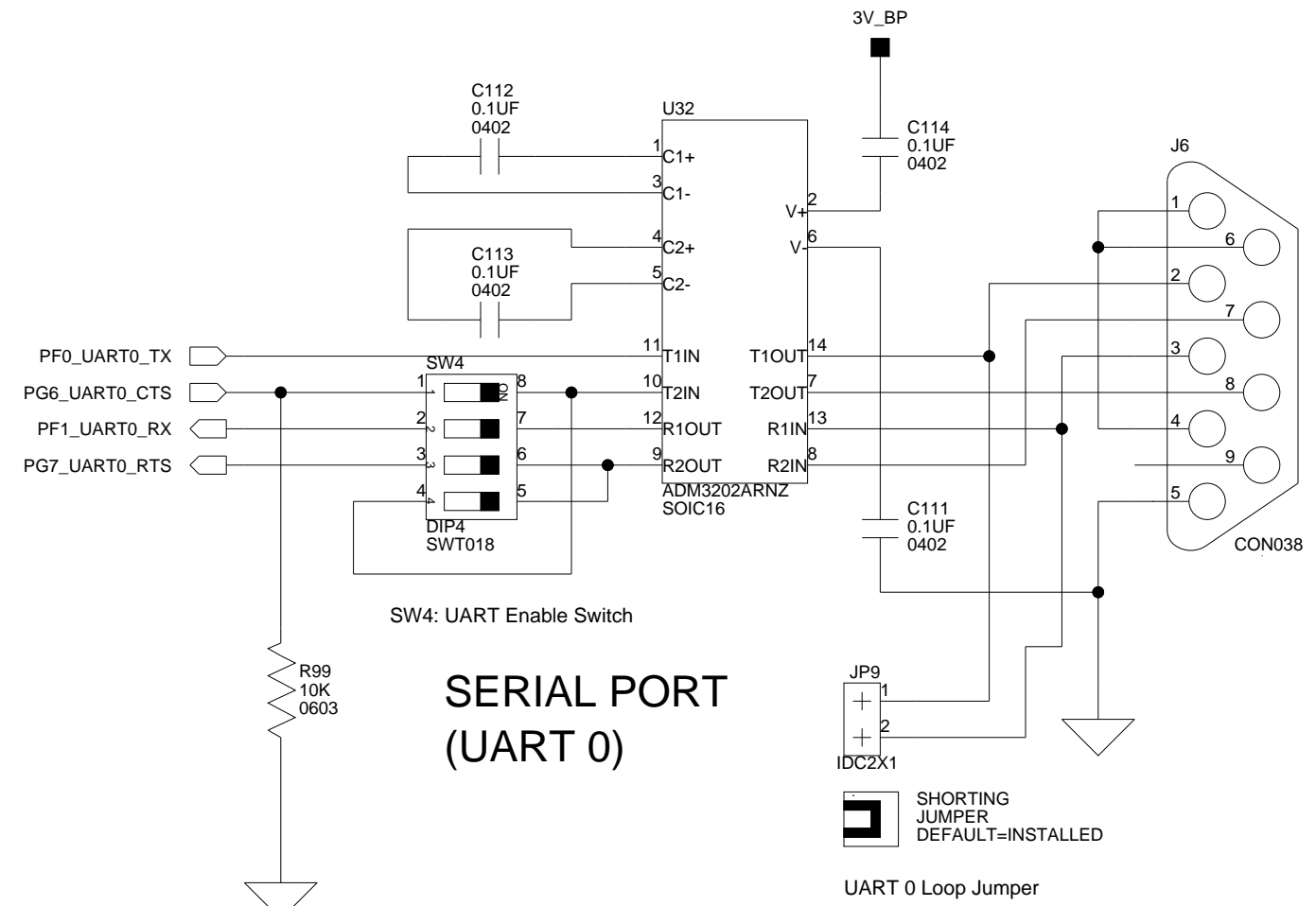
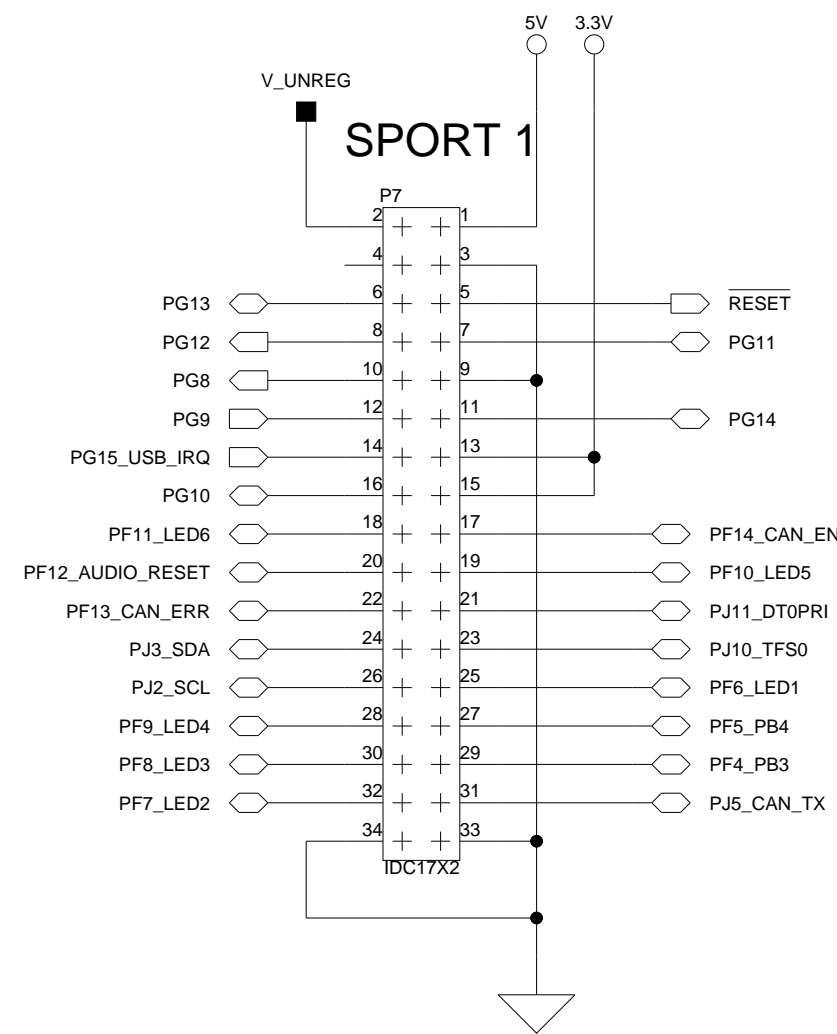
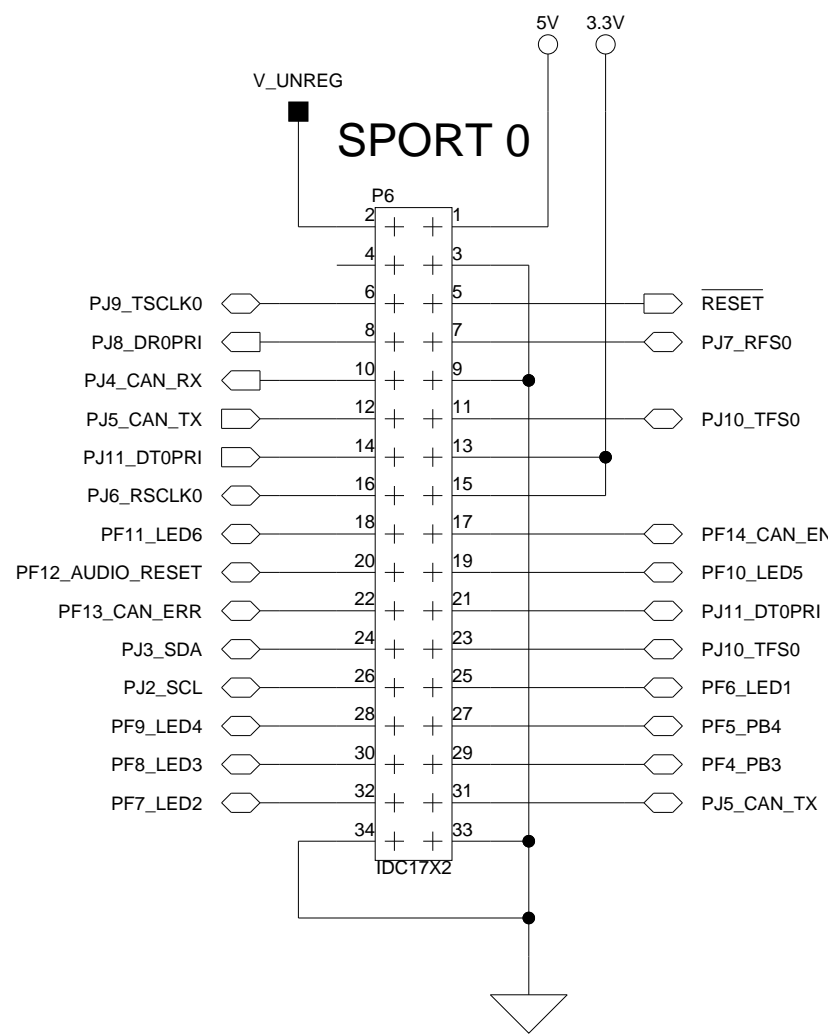
## EXPANSION INTERFACE (TYPE B)



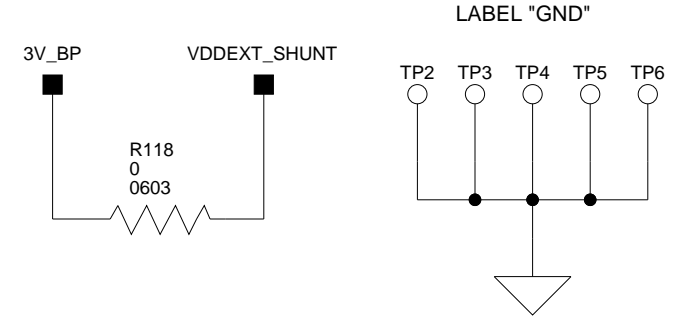
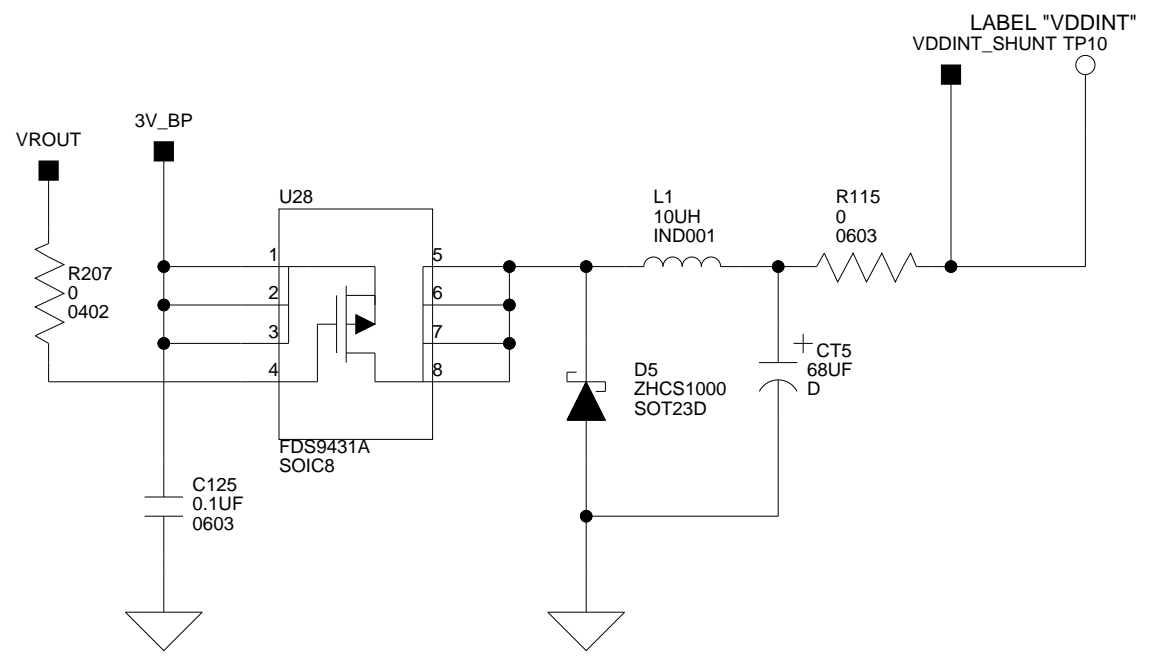
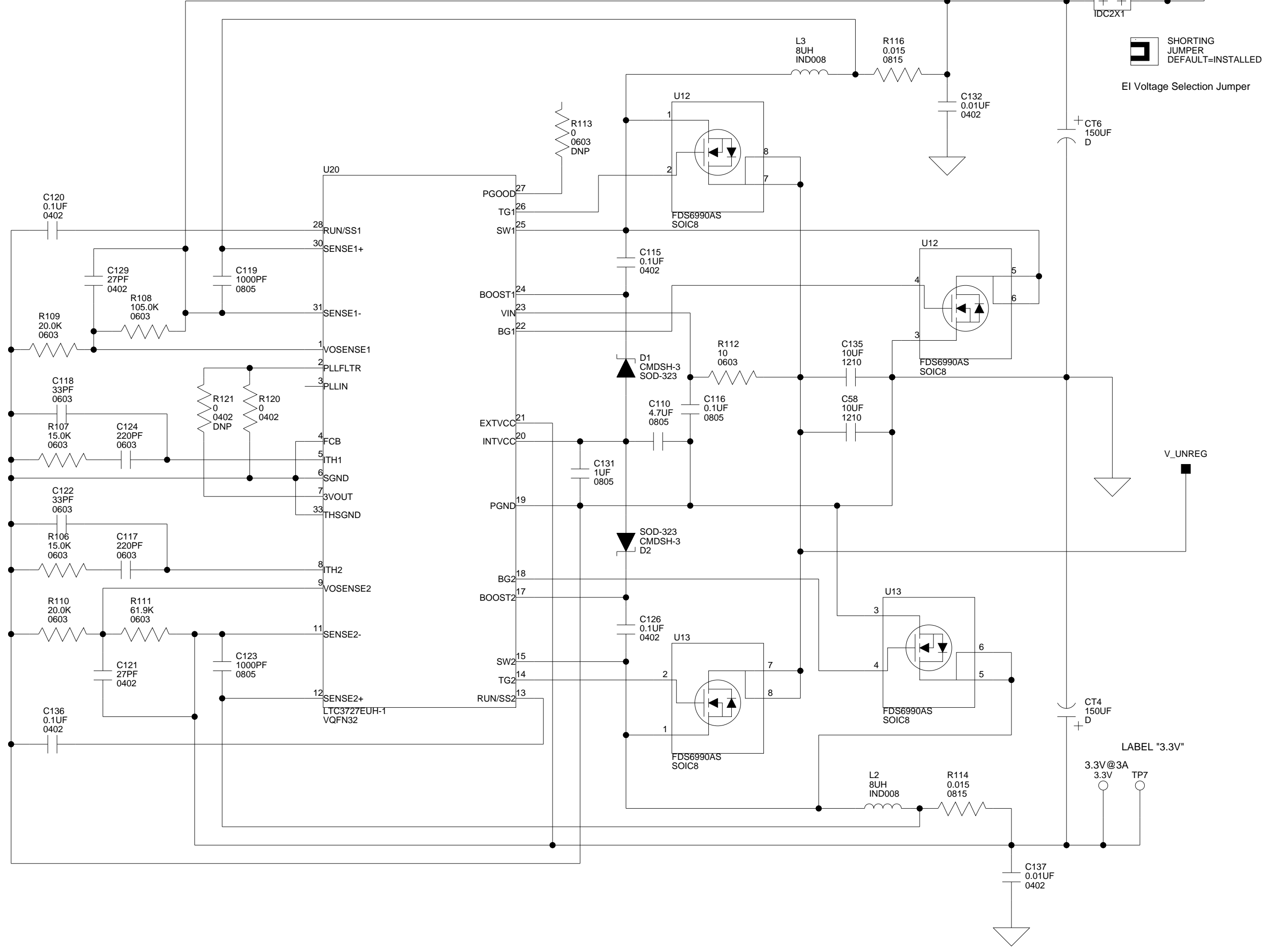
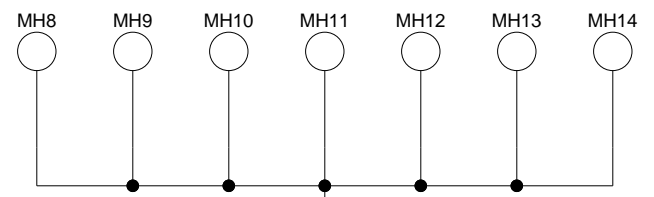
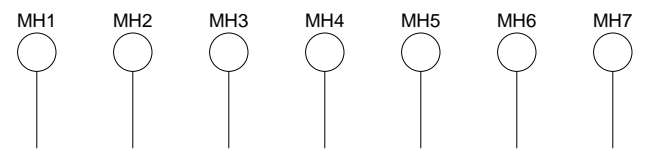
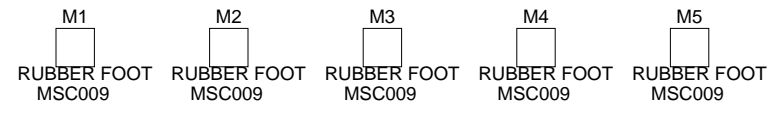
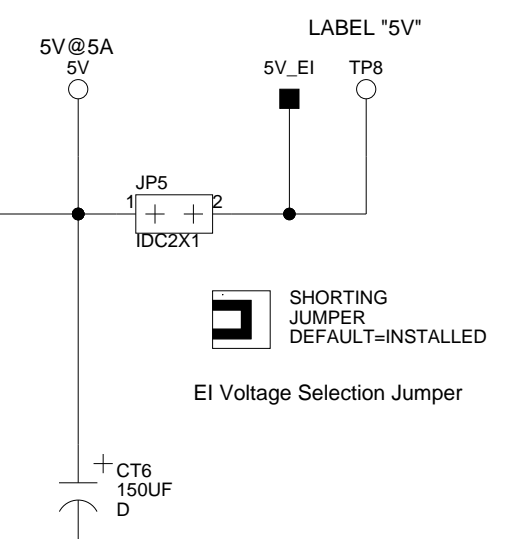
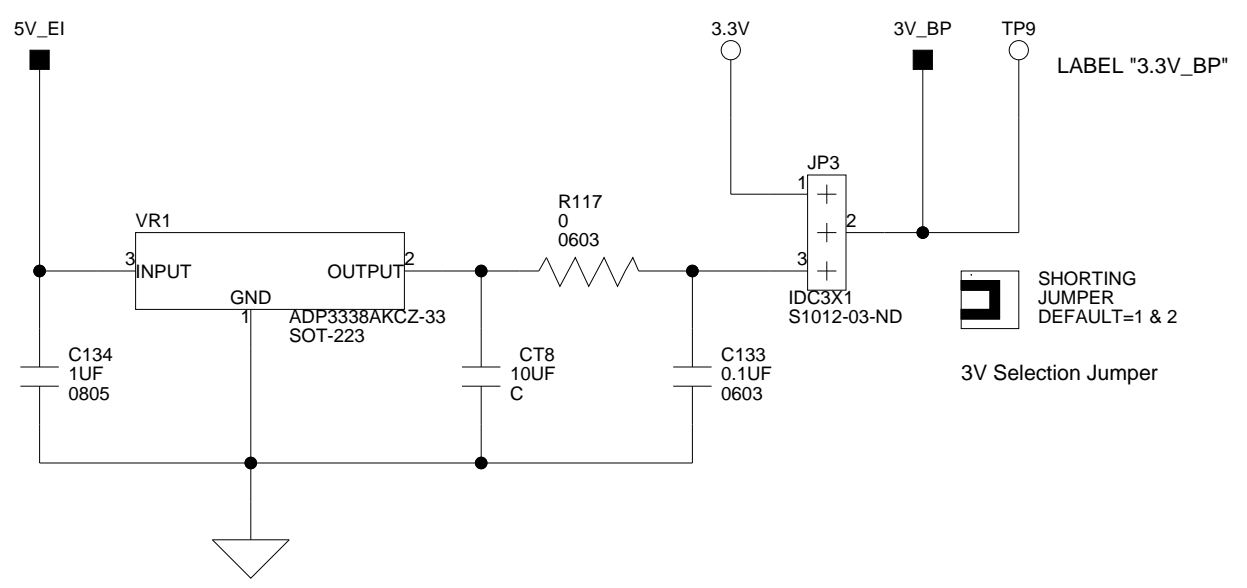
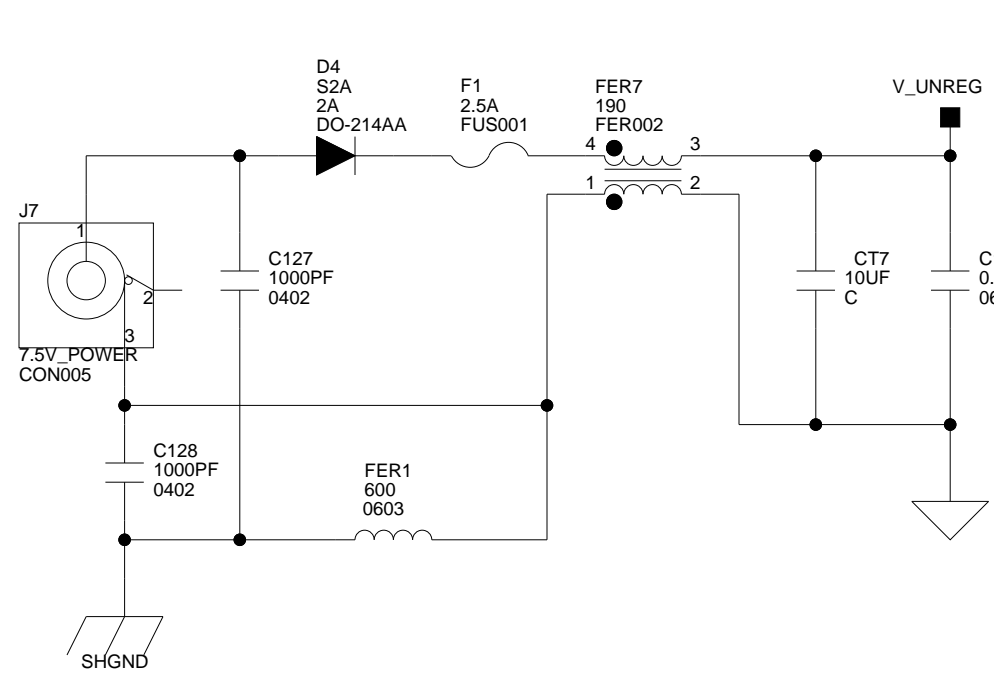
All USB interface circuitry is considered proprietary and has been omitted from this schematic.

When designing your JTAG interface please refer to the Engineer to Engineer Note EE-68 which can be found at <http://www.analog.com>

<b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		Title <b>ADSP-BF537 EZ-KIT LITE EXPANSION INTERFACE &amp; JTAG</b>	
Size C	Board No.	A0188-2004	Rev 2.1
Date	5-25-2006_14:02	Sheet	9 of 11



		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-BF537 EZ-KIT LITE STAMP CONNECTORS	
<b>Size</b> C	<b>Board No.</b> A0188-2004	<b>Rev</b> 2.1	
<b>Date</b> 5-25-2006_14:02	<b>Sheet</b> 10 of		11



		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-BF537 EZ-KIT LITE <b>POWER</b>	
<b>Size C</b>	<b>Board No.</b> A0188-2004	<b>Rev</b> 2.1	
<b>Date</b> 5-25-2006_14:02	<b>Sheet</b> 11 of 11		