

A

B

C

D

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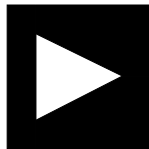
3

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ADSP-BF527 EZ-KIT LITE SCHEMATIC



**ANALOG
DEVICES**

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

Title	ADSP-527 EZ-KIT Lite TITLE
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Size C	Board No. A0208-2006	Rev 2.0
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Date	4-28-2009_15:57	Sheet	1	of	13
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A

B

C

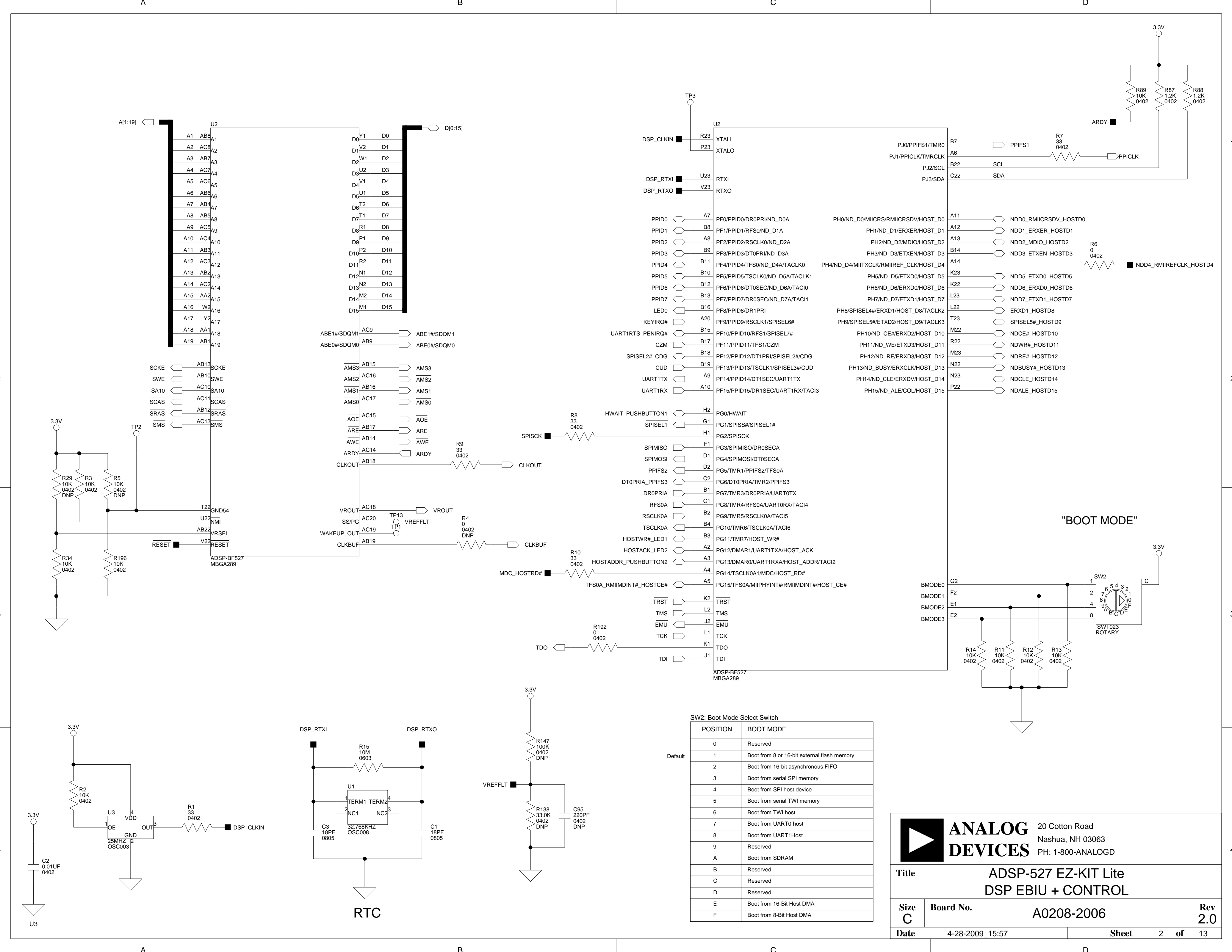
D

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SW2: Boot Mode Select Switch	
POSITION	BOOT MODE
0	Reserved
1	Boot from 8 or 16-bit external flash memory
2	Boot from 16-bit asynchronous FIFO
3	Boot from serial SPI memory
4	Boot from SPI host device
5	Boot from serial TWI memory
6	Boot from TWI host
7	Boot from UART0 host
8	Boot from UART1Host
9	Reserved
A	Boot from SDRAM
B	Reserved
C	Reserved
D	Reserved
E	Boot from 16-Bit Host DMA
F	Boot from 8-Bit Host DMA



ANALOG
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Title

ADSP-527 EZ-KIT Lite
DSP EBIU + CONTROL

Size
C

Board No.

A0208-2006

Rev
2.0

Date

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Sheet

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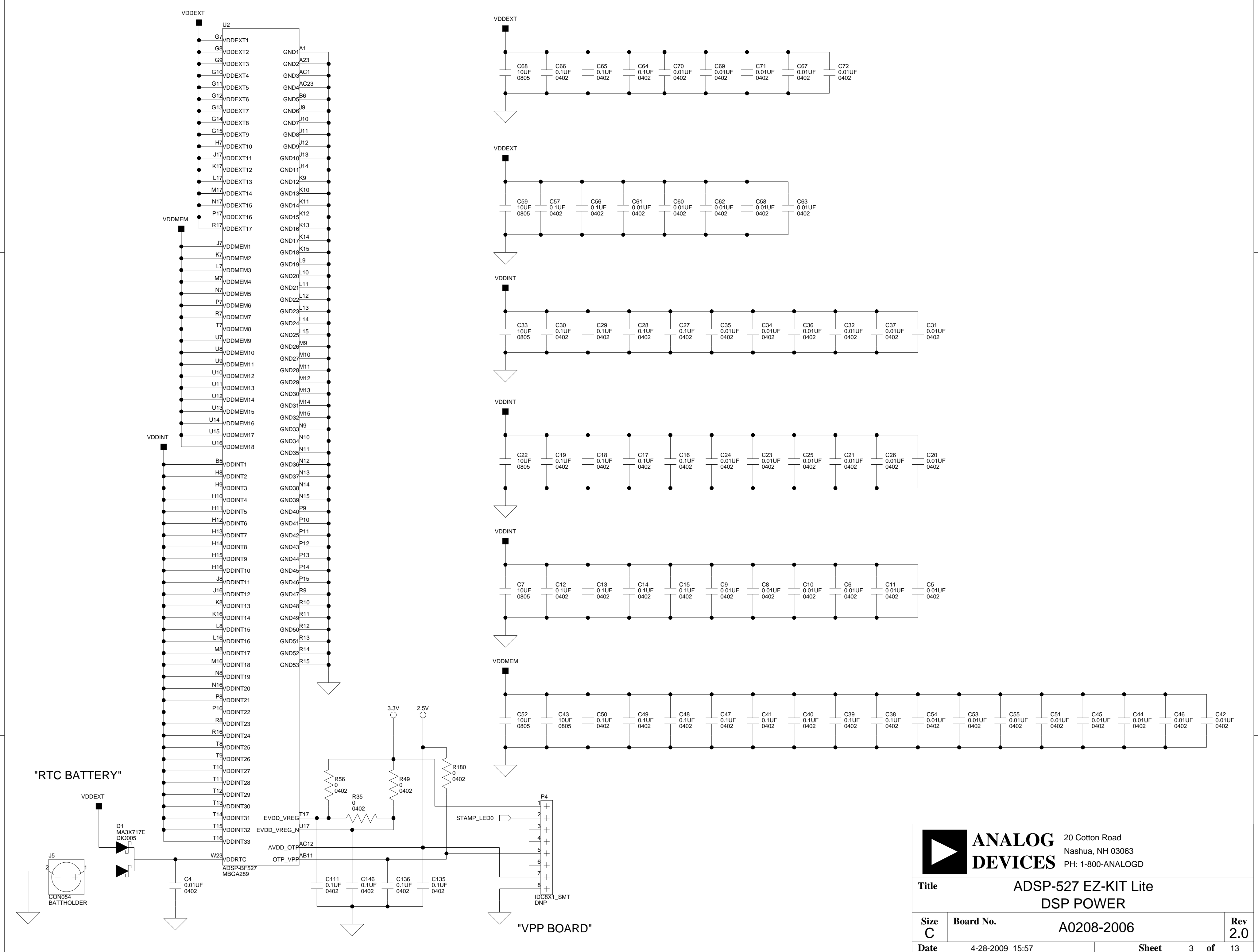
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A

B

C

D

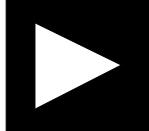


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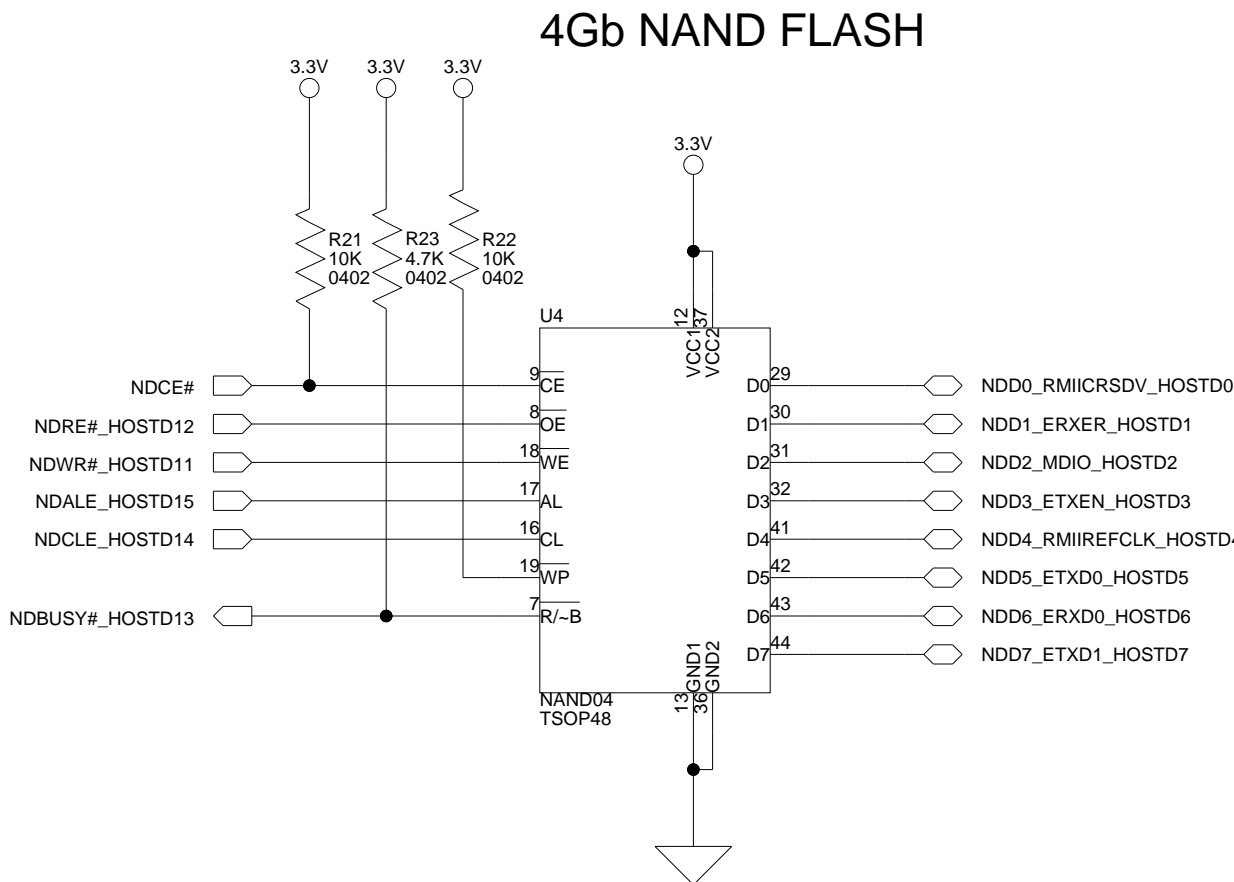
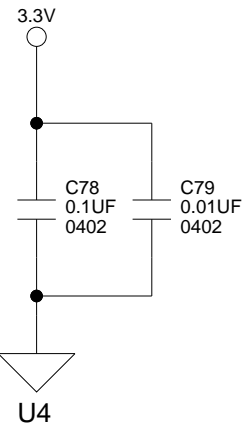
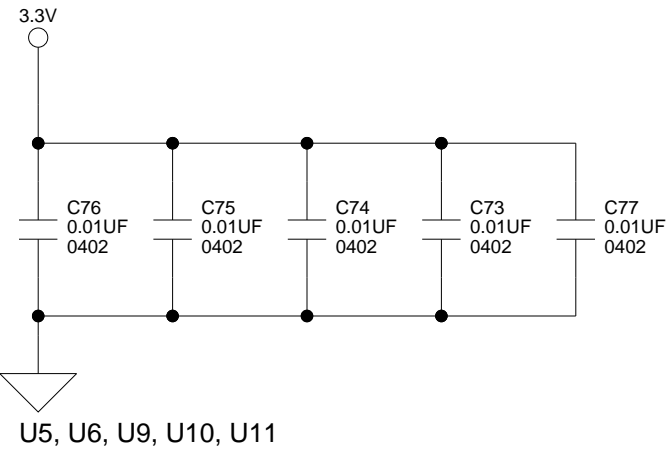
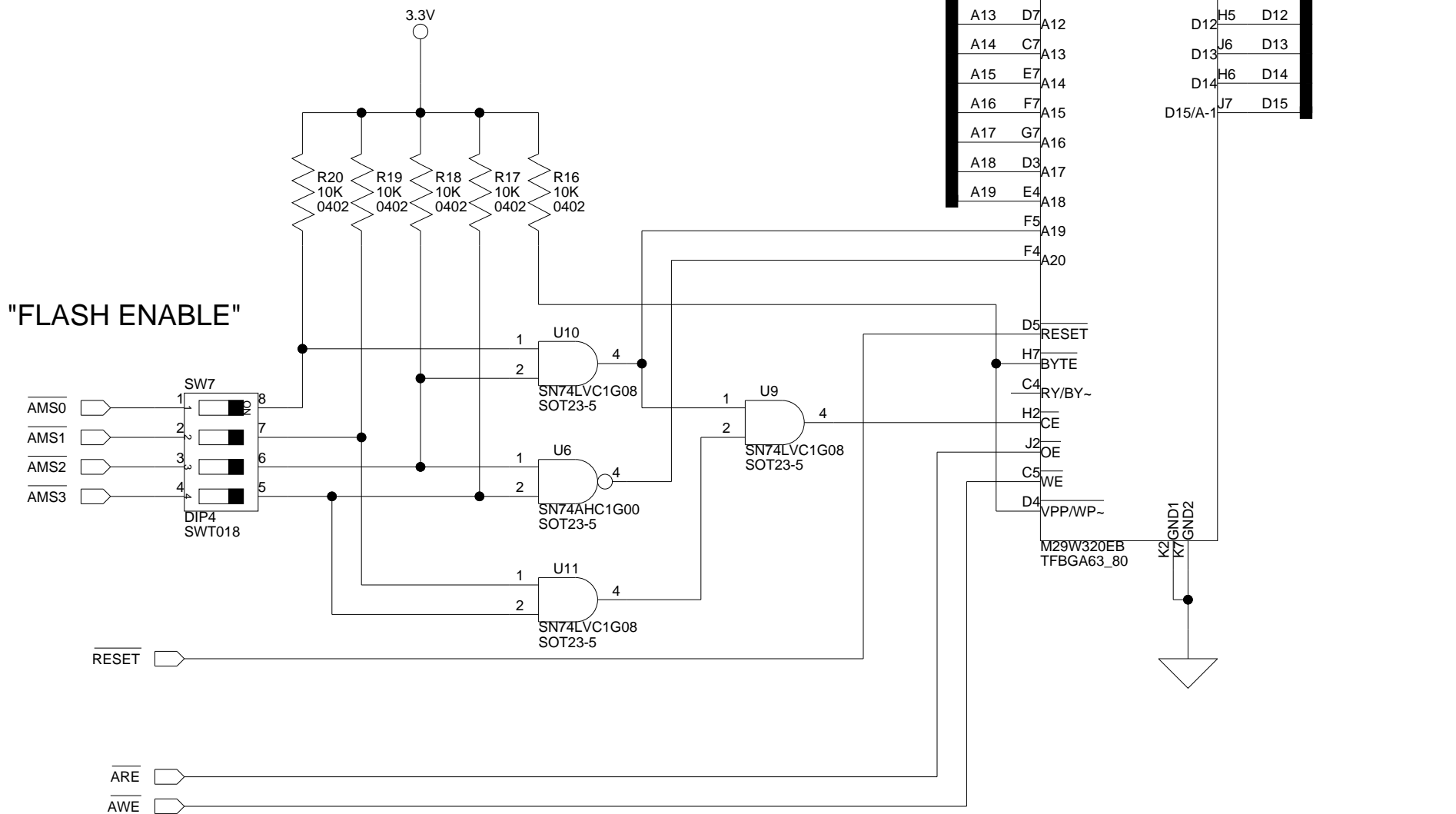
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4

		ANALOG DEVICES		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
Title ADSP-527 EZ-KIT Lite DSP POWER					
Size C	Board No. A0208-2006			Rev 2.0	
Date	4-28-2009_15:57		Sheet	3	of 13

SW7: FLASH Enable

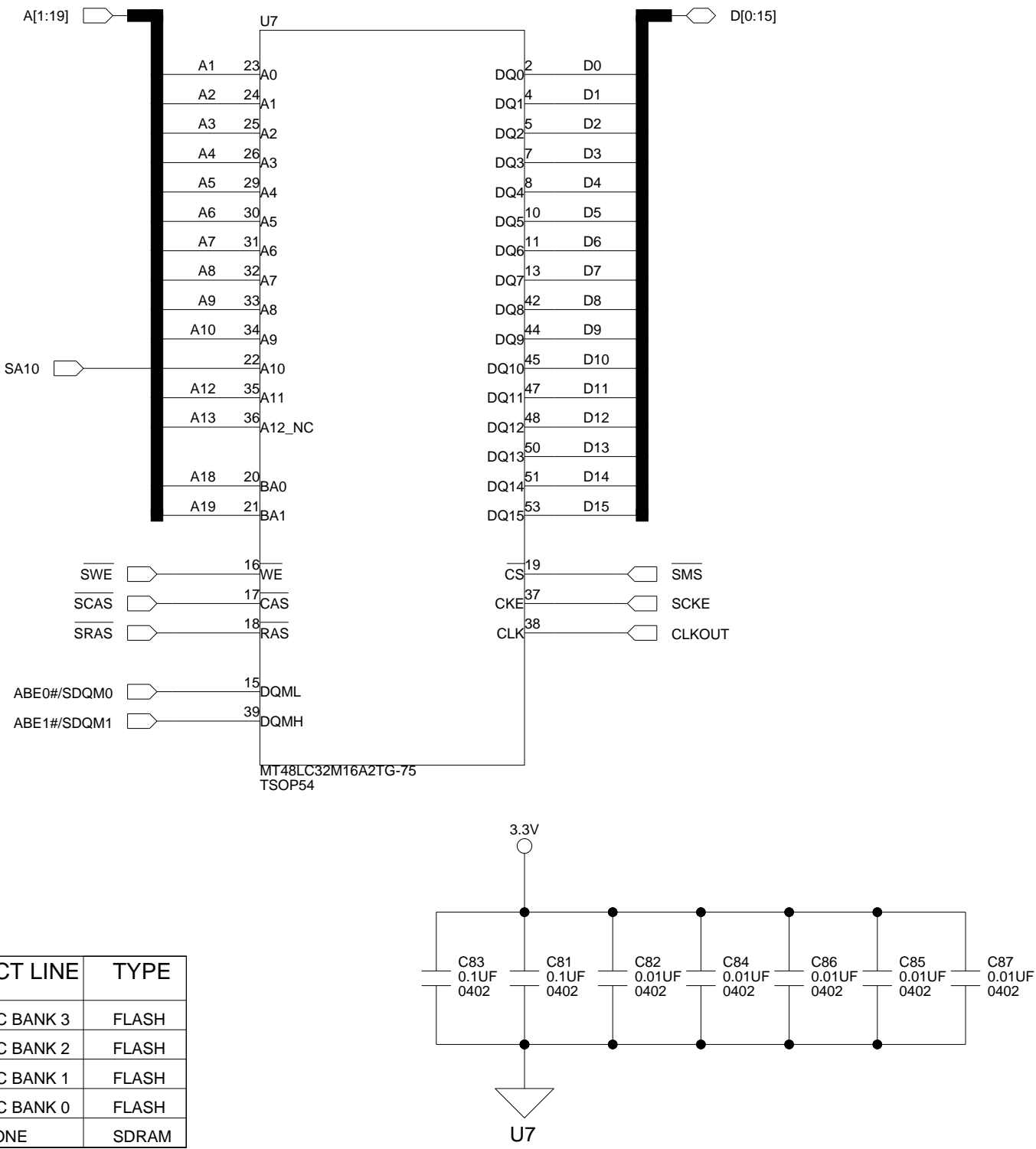
POS.	FROM	TO	DEFAULT	ALTERNATE FUNCTION / OFF MODE
SW7.1	DSP (U2)	FLASH (U5)	ON	J2.65 (Expansion Interface)
SW7.2	DSP (U2)	FLASH (U5)	ON	J2.63 (Expansion Interface)
SW7.3	DSP (U2)	FLASH (U5)	ON	J2.61 (Expansion Interface)
SW7.4	DSP (U2)	FLASH (U5)	ON	J2.59 (Expansion Interface)



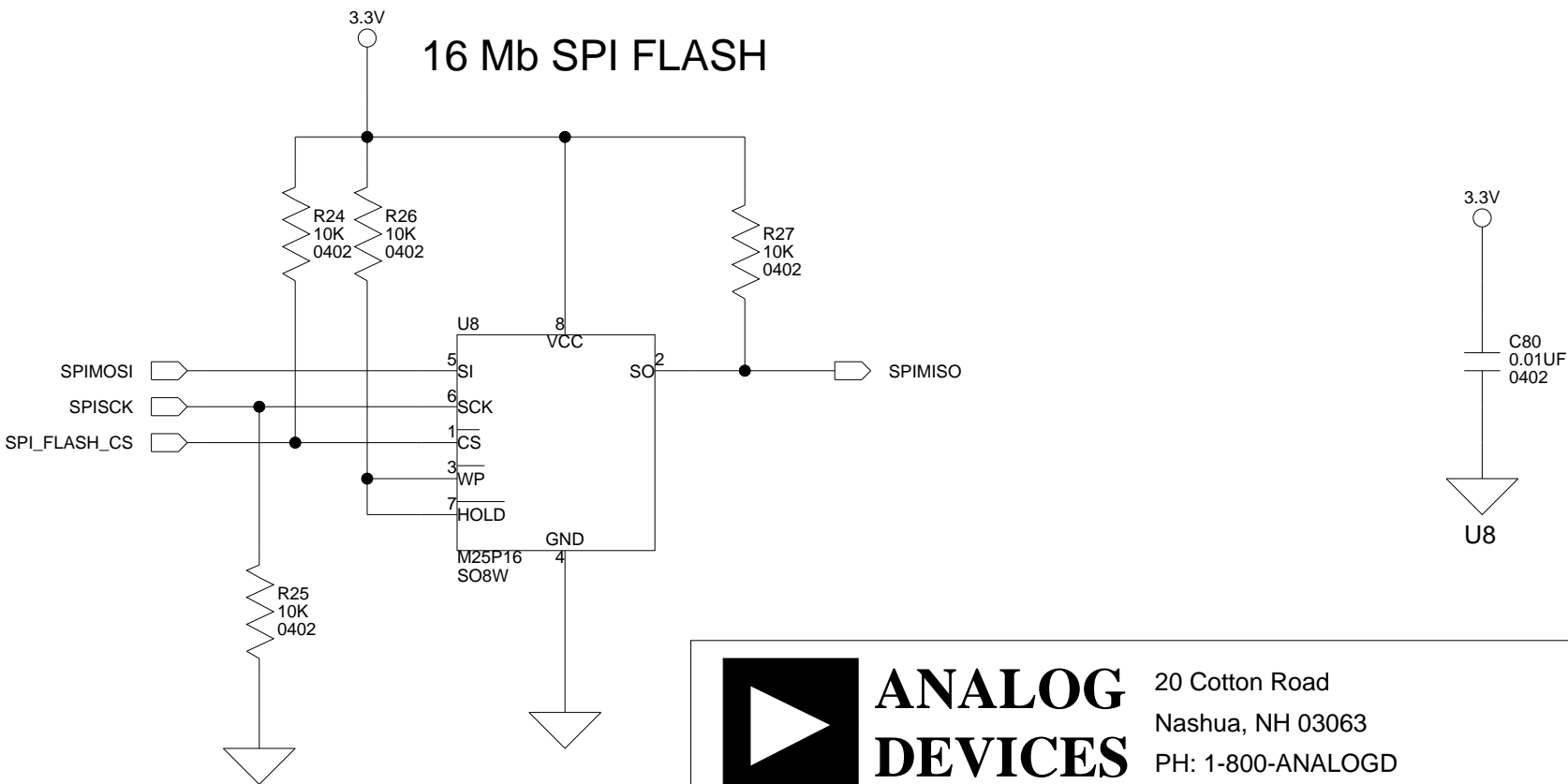
MEMORY MAP

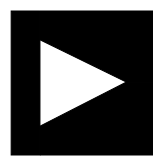
ADDRESS RANGE	SELECT LINE	TYPE
0x2030 0000 - 0x203F FFFF	ASYNC BANK 3	FLASH
0x2020 0000 - 0x202F FFFF	ASYNC BANK 2	FLASH
0x2010 0000 - 0x201F FFFF	ASYNC BANK 1	FLASH
0x2000 0000 - 0x200F FFFF	ASYNC BANK 0	FLASH
0x0000 0000 - 0x03FF FFFF	NONE	SDRAM

64MB SDRAM (32M x 16)



16 Mb SPI FLASH

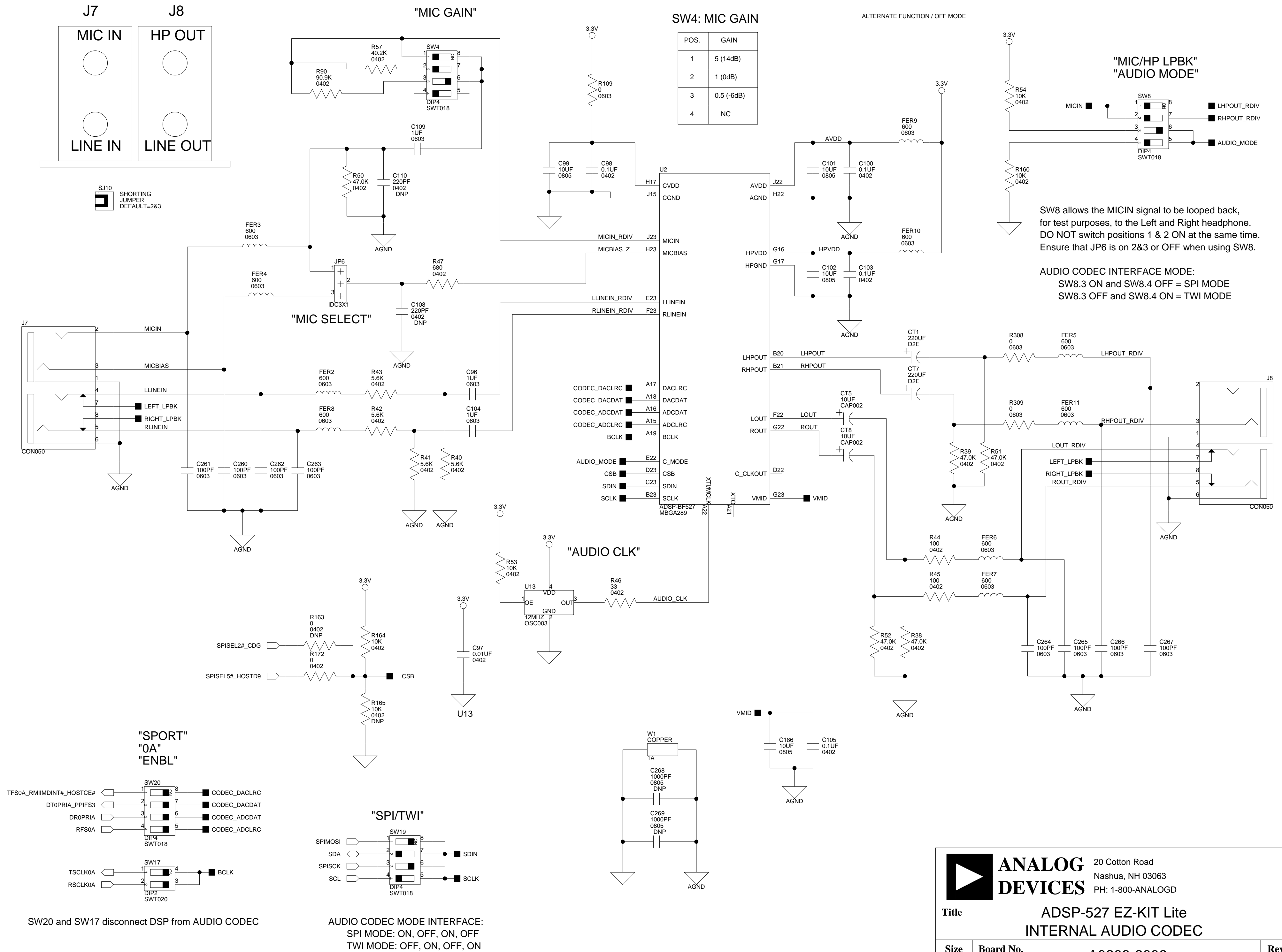




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Title ADSP-527 EZ-KIT Lite MEMORY		
Size C	Board No. A0208-2006	Rev 2.0
Date 4-28-2009_15:57	Sheet 4 of	13



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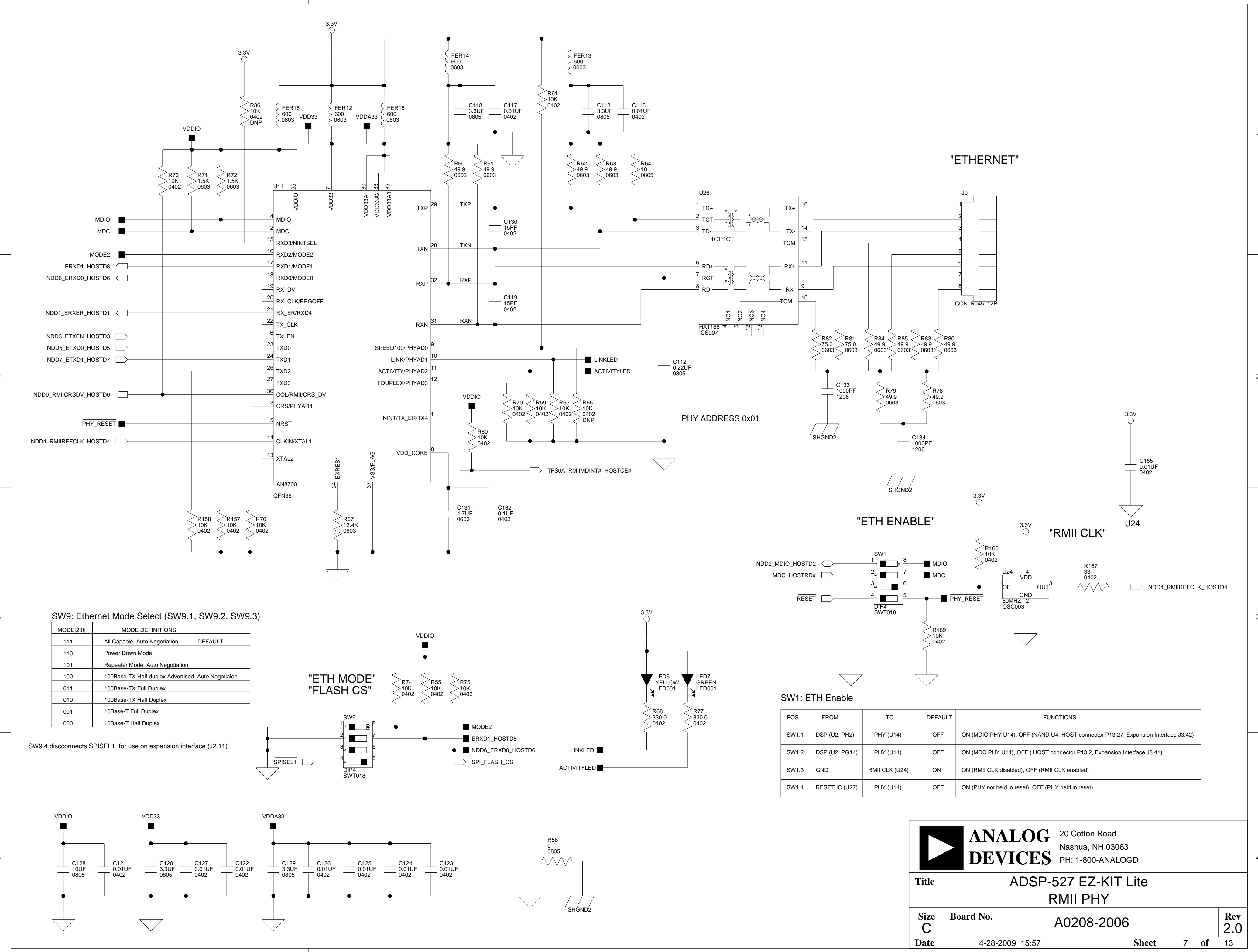
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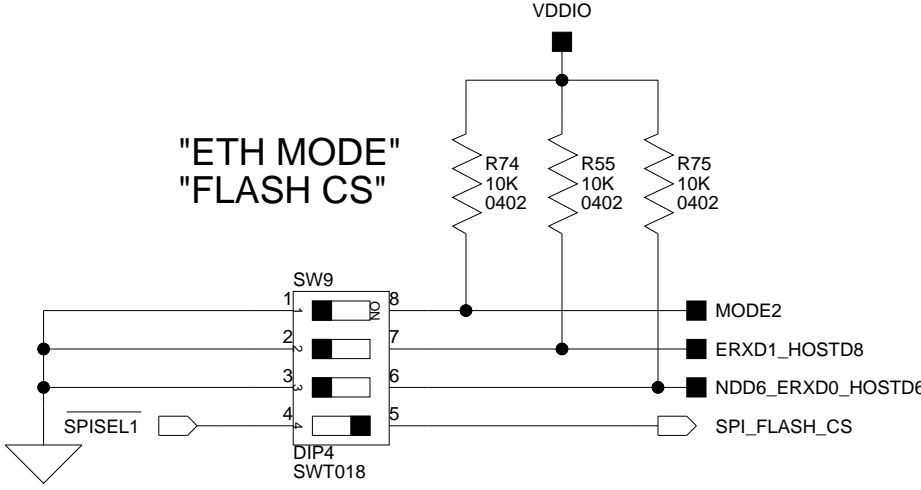


SW9: Ethernet Mode Select (SW9.1, SW9.2, SW9.3)

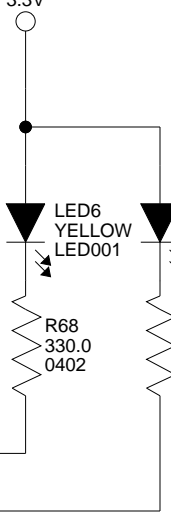
MODE[2:0]	MODE DEFINITIONS	
111	All Capable, Auto Negotiation	DEFAULT
110	Power Down Mode	
101	Repeater Mode, Auto Negotiation	
100	100Base-TX Half duplex Advertised, Auto Negotiaion	
011	100Base-TX Full Duplex	
010	100Base-TX Half Duplex	
001	10Base-T Full Duplex	
000	10Base-T Half Duplex	

SW9.4 disconnects SPISEL1, for use on expansion interface (J2.11)

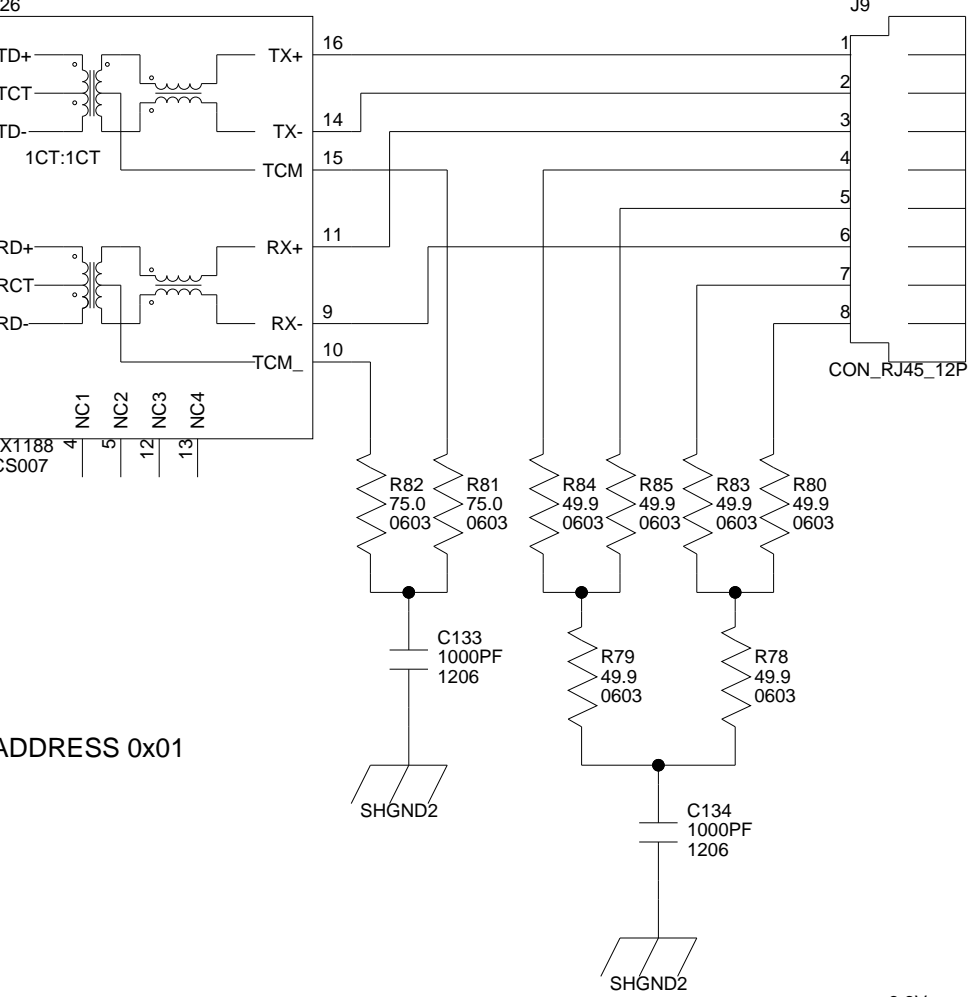
"ETH MODE"
"FLASH CS"



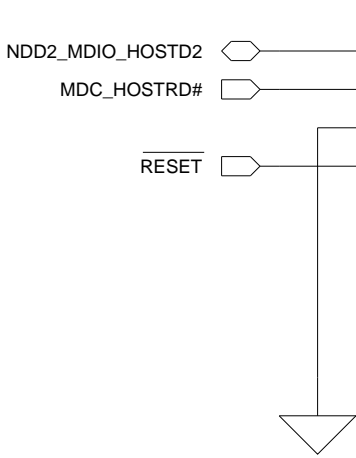
PHY ADDRESS 0x01



"ETHERNET"



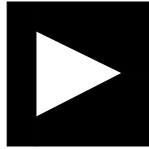
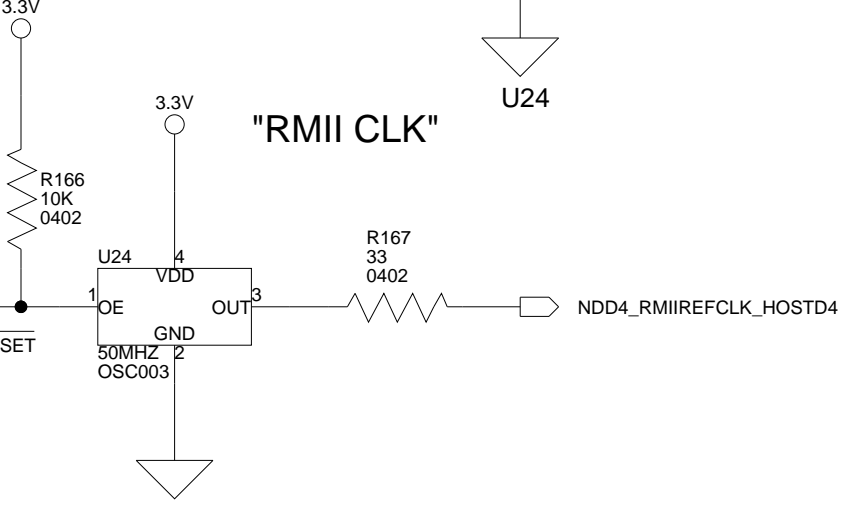
"ETH ENABLE"



SW1: ETH Enable

POS.	FROM	TO	DEFAULT	FUNCTIONS
SW1.1	DSP (U2, PH2)	PHY (U14)	OFF	ON (MDIO PHY U14), OFF (NAND U4, HOST connector P13.27, Expansion Interface J3.42)
SW1.2	DSP (U2, PG14)	PHY (U14)	OFF	ON (MDC PHY U14), OFF (HOST connector P13.2, Expansion Interface J3.41)
SW1.3	GND	RMII CLK (U24)	ON	ON (RMII CLK disabled), OFF (RMII CLK enabled)
SW1.4	RESET IC (U27)	PHY (U14)	OFF	ON (PHY not held in reset), OFF (PHY held in reset)

"RMII CLK"



**ANALOG
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Title **ADSP-527 EZ-KIT Lite
RMII PHY**

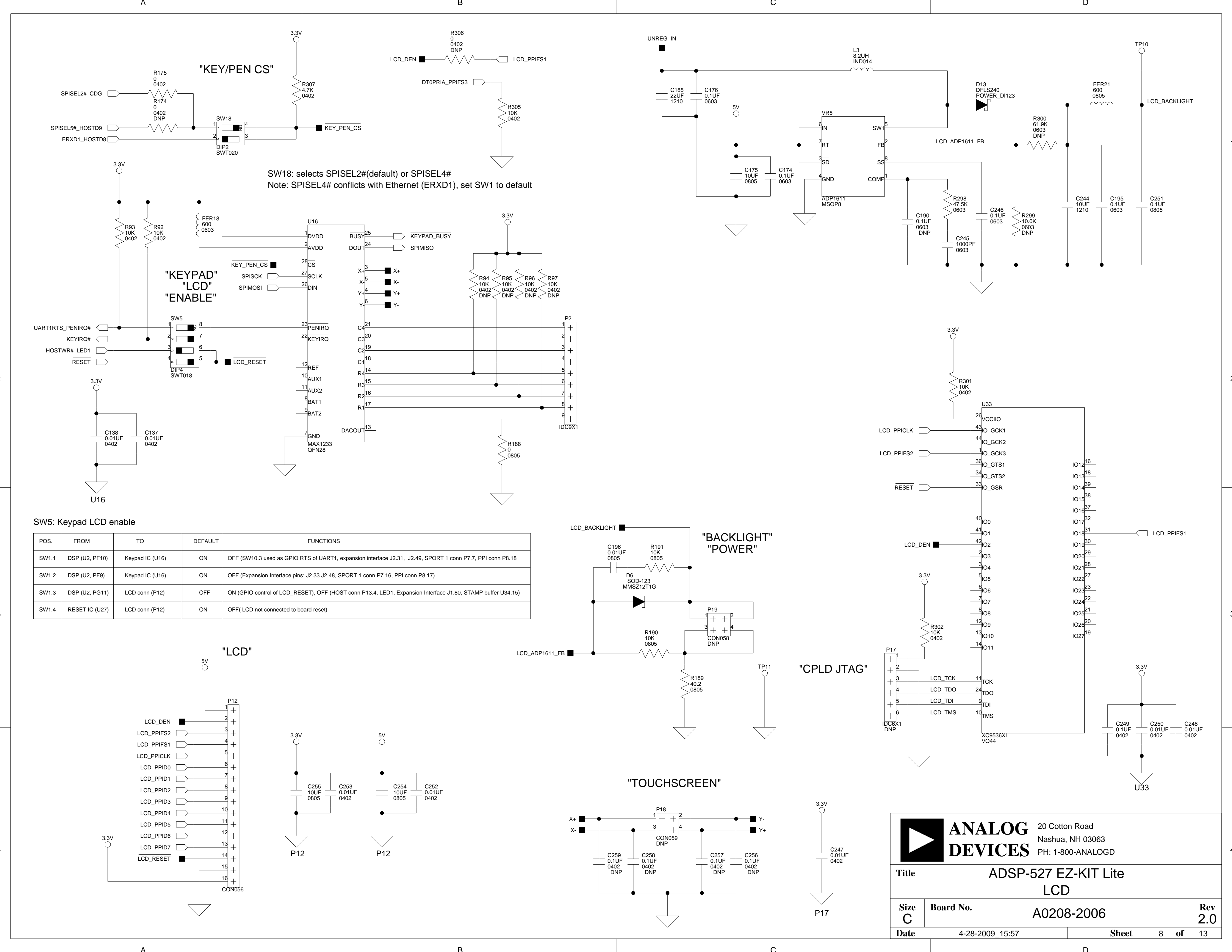
Size C	Board No. A0208-2006	Rev 2.0
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SW5: Keypad LCD enable

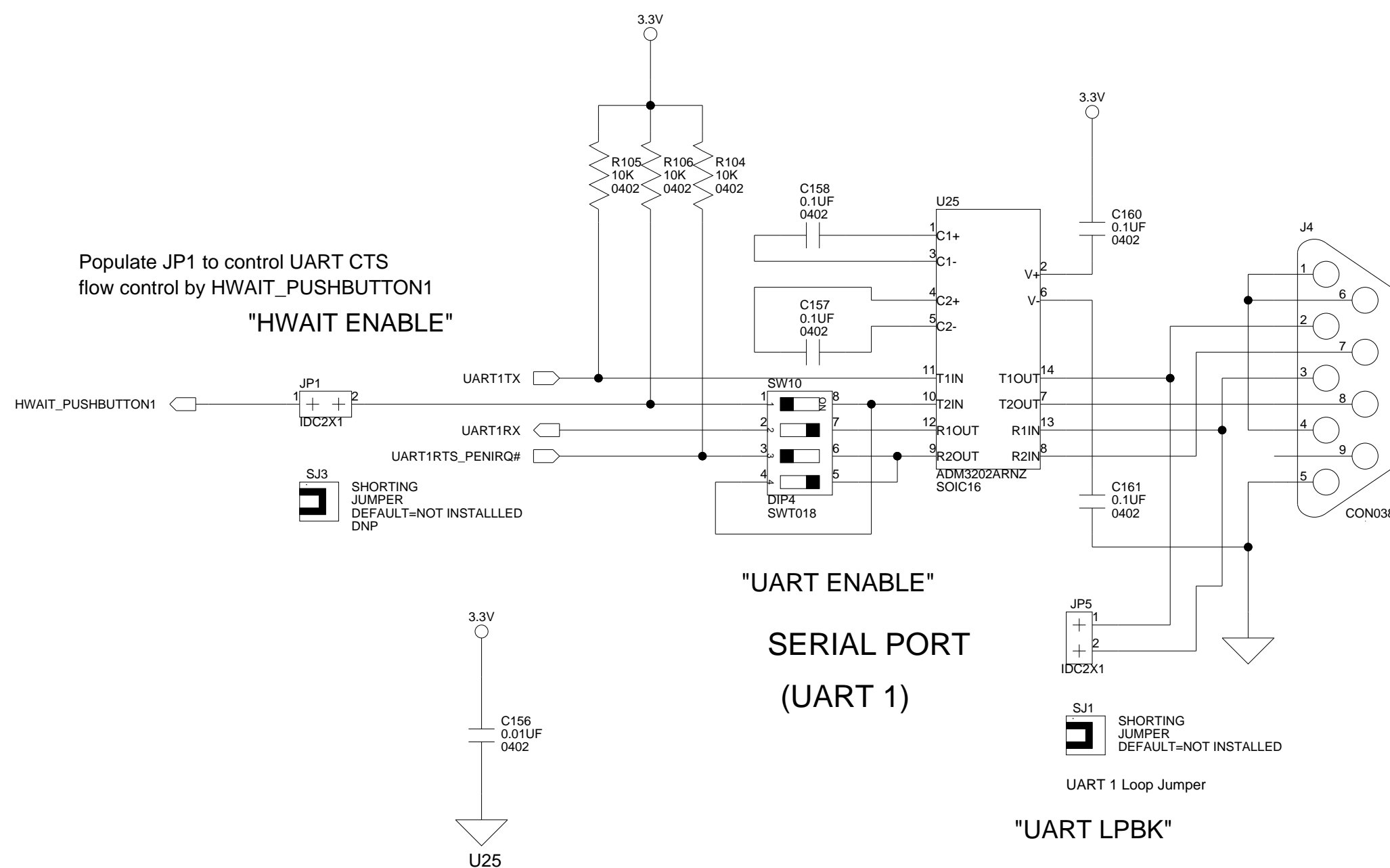
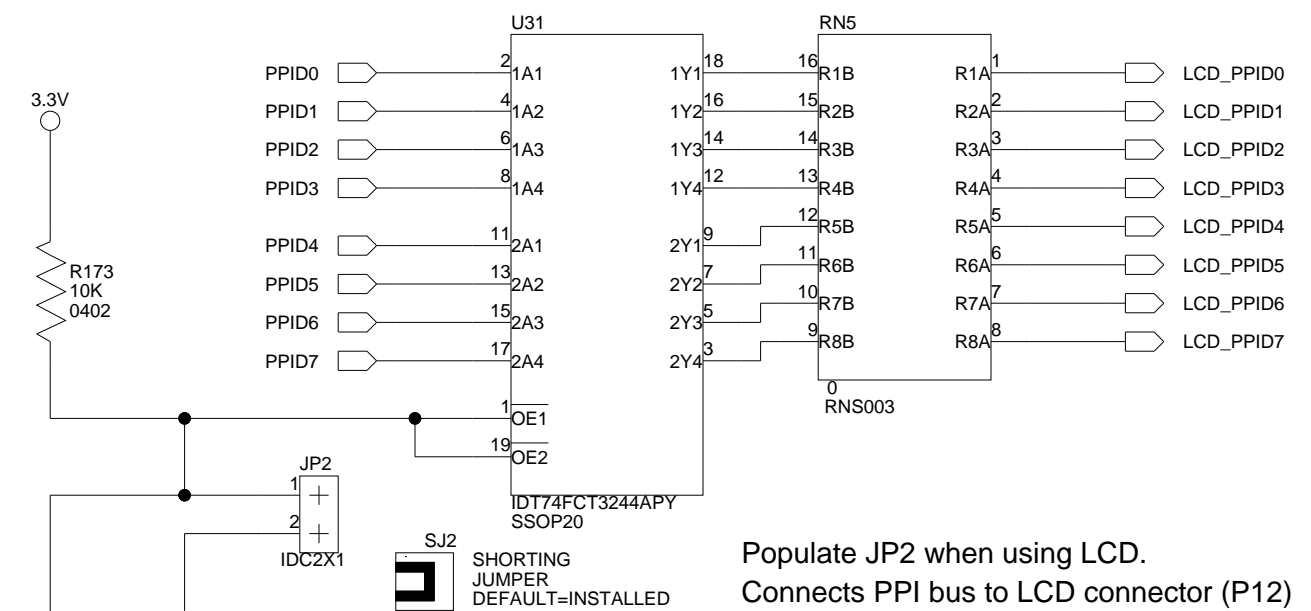
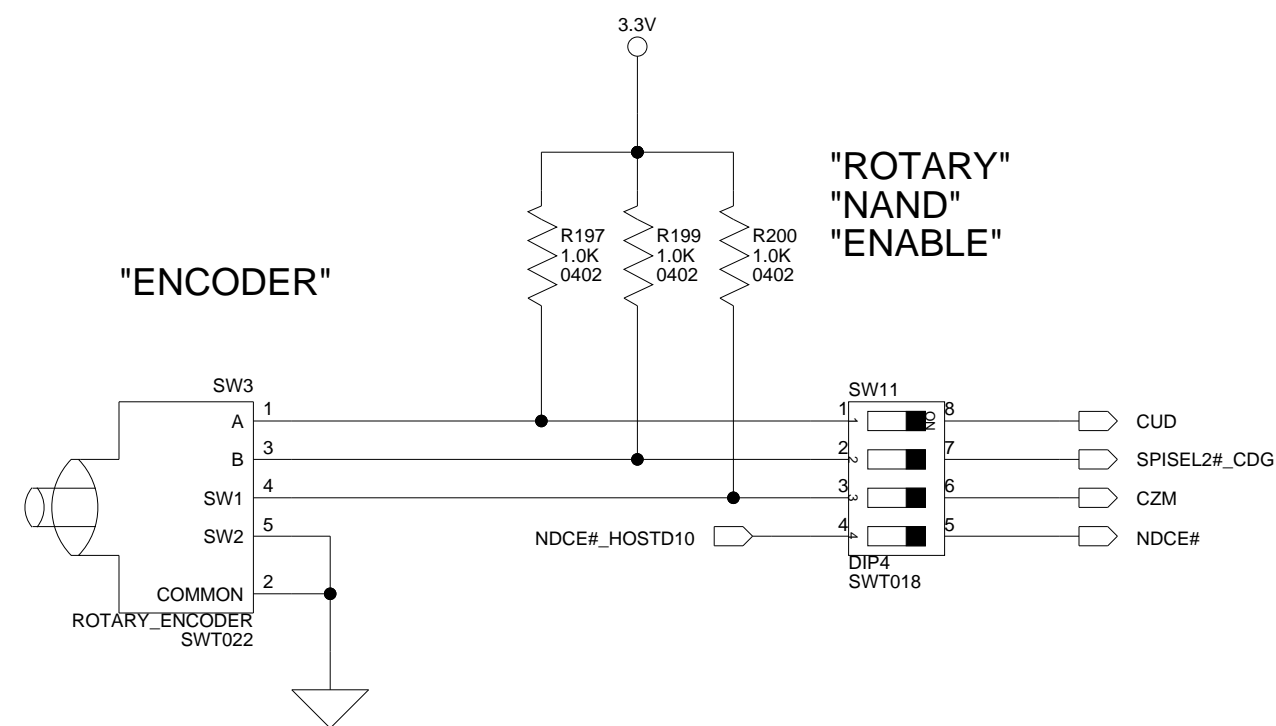
POS.	FROM	TO	DEFAULT	FUNCTIONS
SW1.1	DSP (U2, PF10)	Keypad IC (U16)	ON	OFF (SW10.3 used as GPIO RTS of UART1, expansion interface J2.31, J2.49, SPORT 1 conn P7.7, PPI conn P8.18)
SW1.2	DSP (U2, PF9)	Keypad IC (U16)	ON	OFF (Expansion Interface pins: J2.33 J2.48, SPORT 1 conn P7.16, PPI conn P8.17)
SW1.3	DSP (U2, PG11)	LCD conn (P12)	OFF	ON (GPIO control of LCD_RESET), OFF (HOST conn P13.4, LED1, Expansion Interface J1.80, STAMP buffer U34.15)
SW1.4	RESET IC (U27)	LCD conn (P12)	ON	OFF(LCD not connected to board reset)



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Title			ADSP-527 EZ-KIT Lite LCD		
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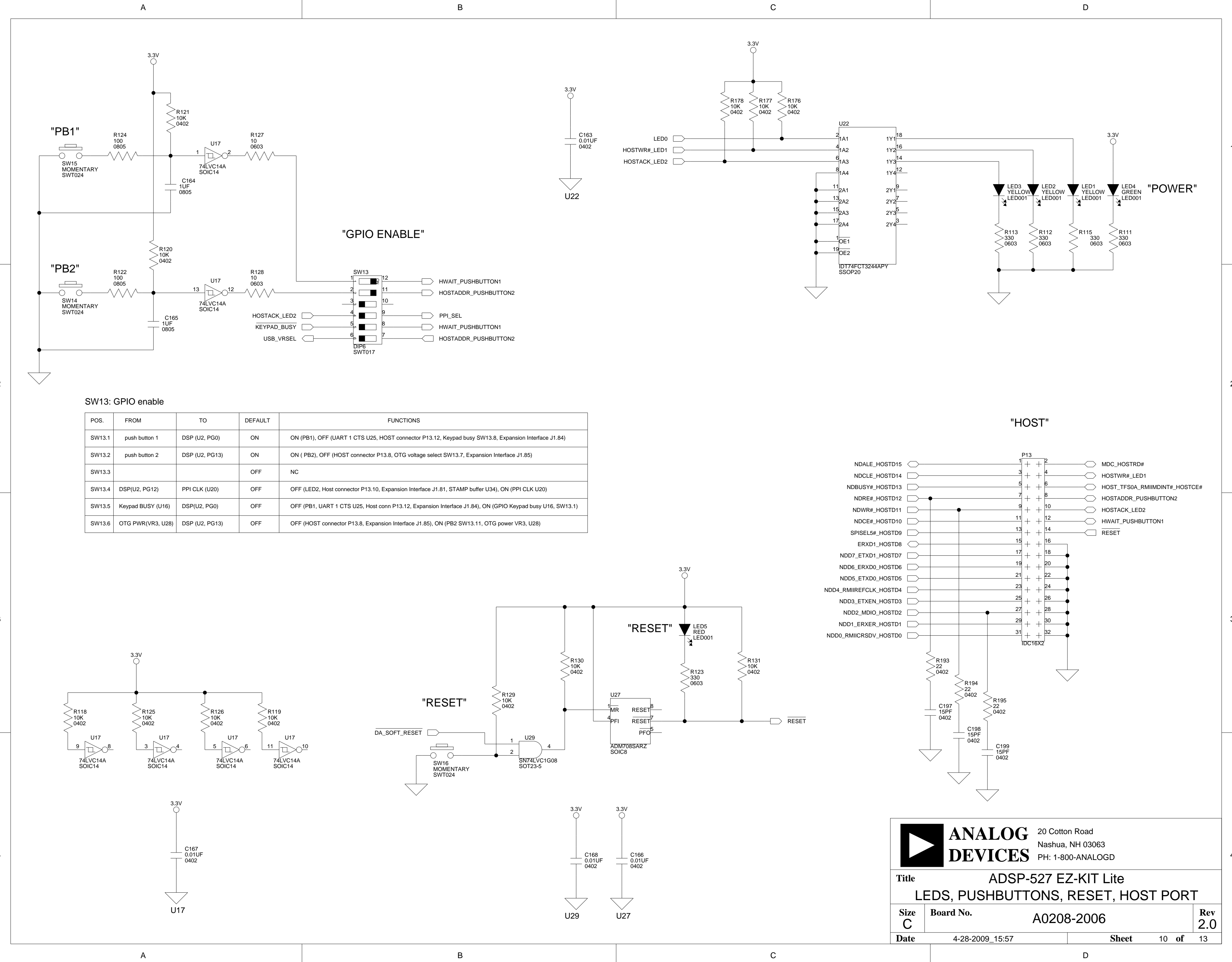
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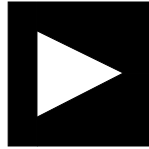
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SW13: GPIO enable

POS.	FROM	TO	DEFAULT	FUNCTIONS
SW13.1	push button 1	DSP (U2, PG0)	ON	ON (PB1), OFF (UART 1 CTS U25, HOST connector P13.12, Keypad busy SW13.8, Expansion Interface J1.84)
SW13.2	push button 2	DSP (U2, PG13)	ON	ON (PB2), OFF (HOST connector P13.8, OTG voltage select SW13.7, Expansion Interface J1.85)
SW13.3			OFF	NC
SW13.4	DSP(U2, PG12)	PPI CLK (U20)	OFF	OFF (LED2, Host connector P13.10, Expansion Interface J1.81, STAMP buffer U34), ON (PPI CLK U20)
SW13.5	Keypad BUSY (U16)	DSP(U2, PG0)	OFF	OFF (PB1, UART 1 CTS U25, Host conn P13.12, Expansion Interface J1.84), ON (GPIO Keypad busy U16, SW13.1)
SW13.6	OTG PWR(VR3, U28)	DSP (U2, PG13)	OFF	OFF (HOST connector P13.8, Expansion Interface J1.85), ON (PB2 SW13.11, OTG power VR3, U28)



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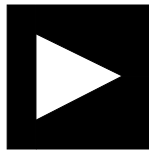
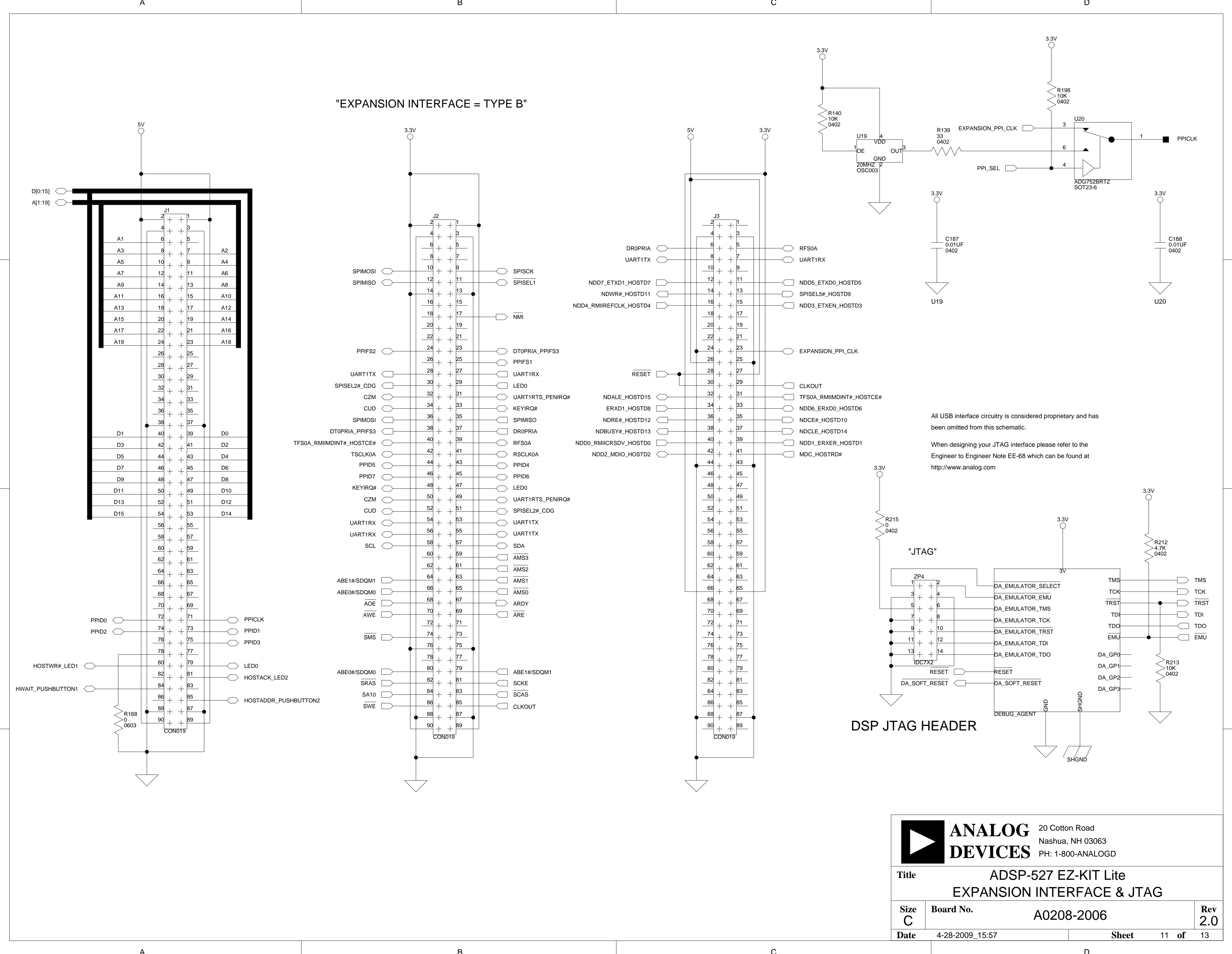
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Size C	Board No.		A0208-2006		Rev 2.0
Date	4-28-2009_15:57		Sheet	10 of	13

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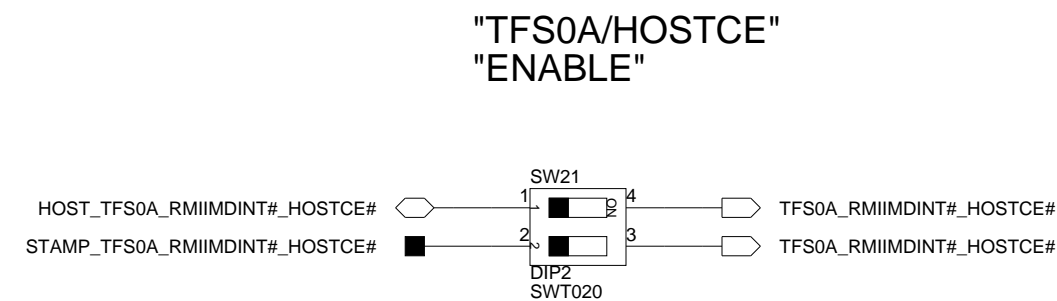
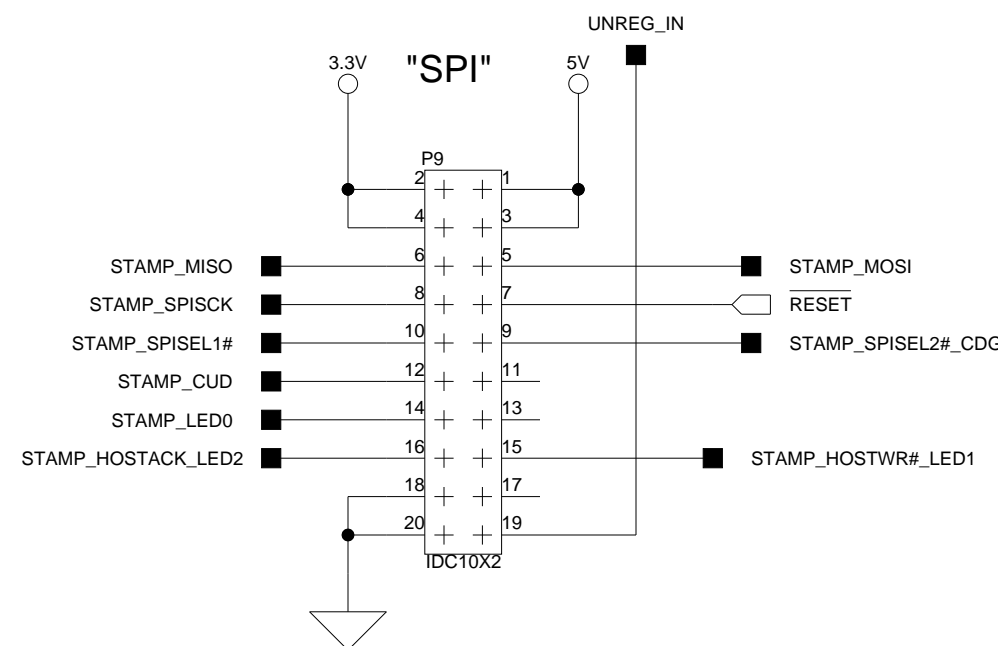
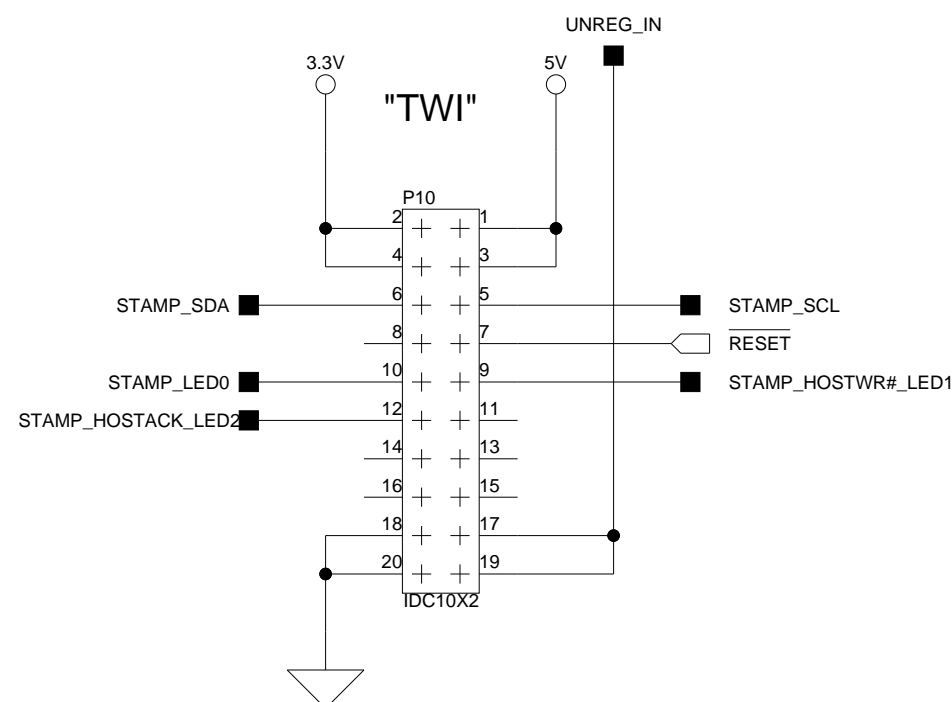
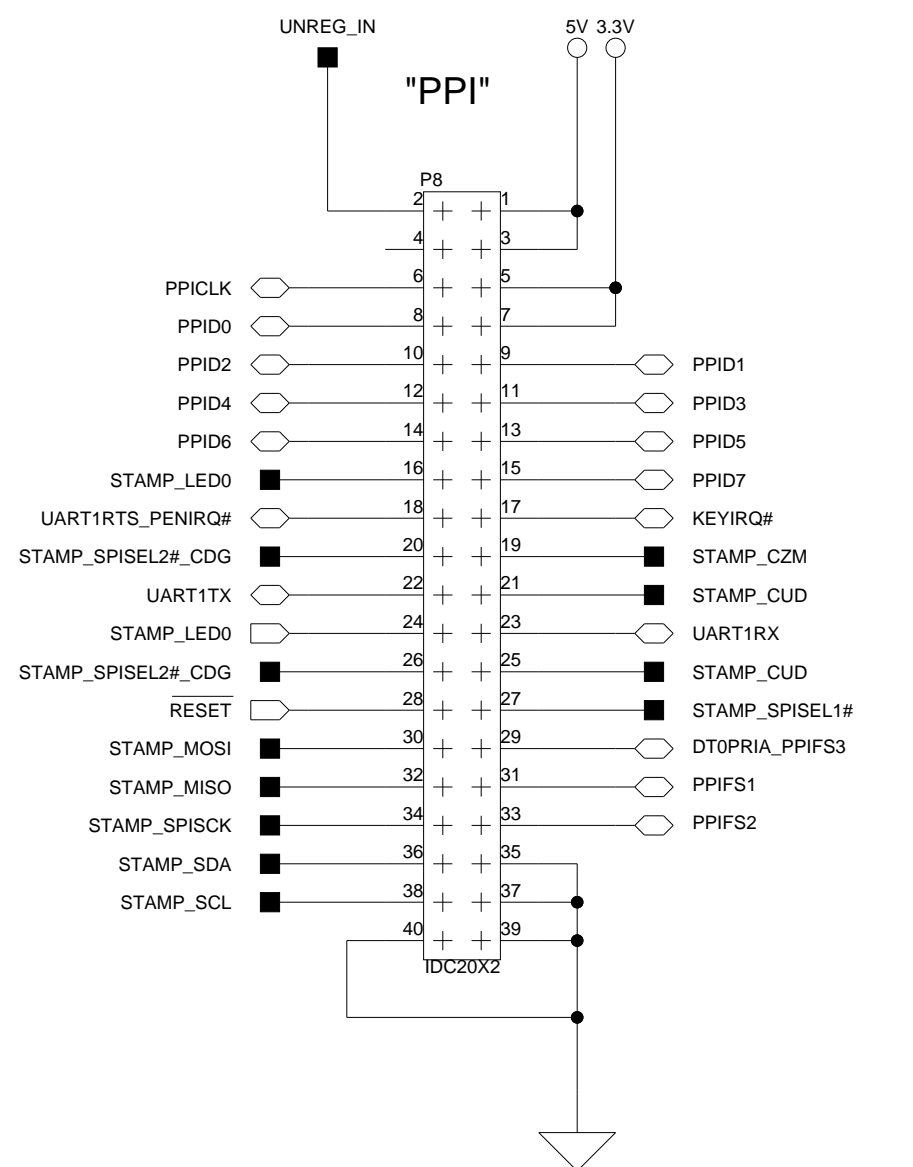
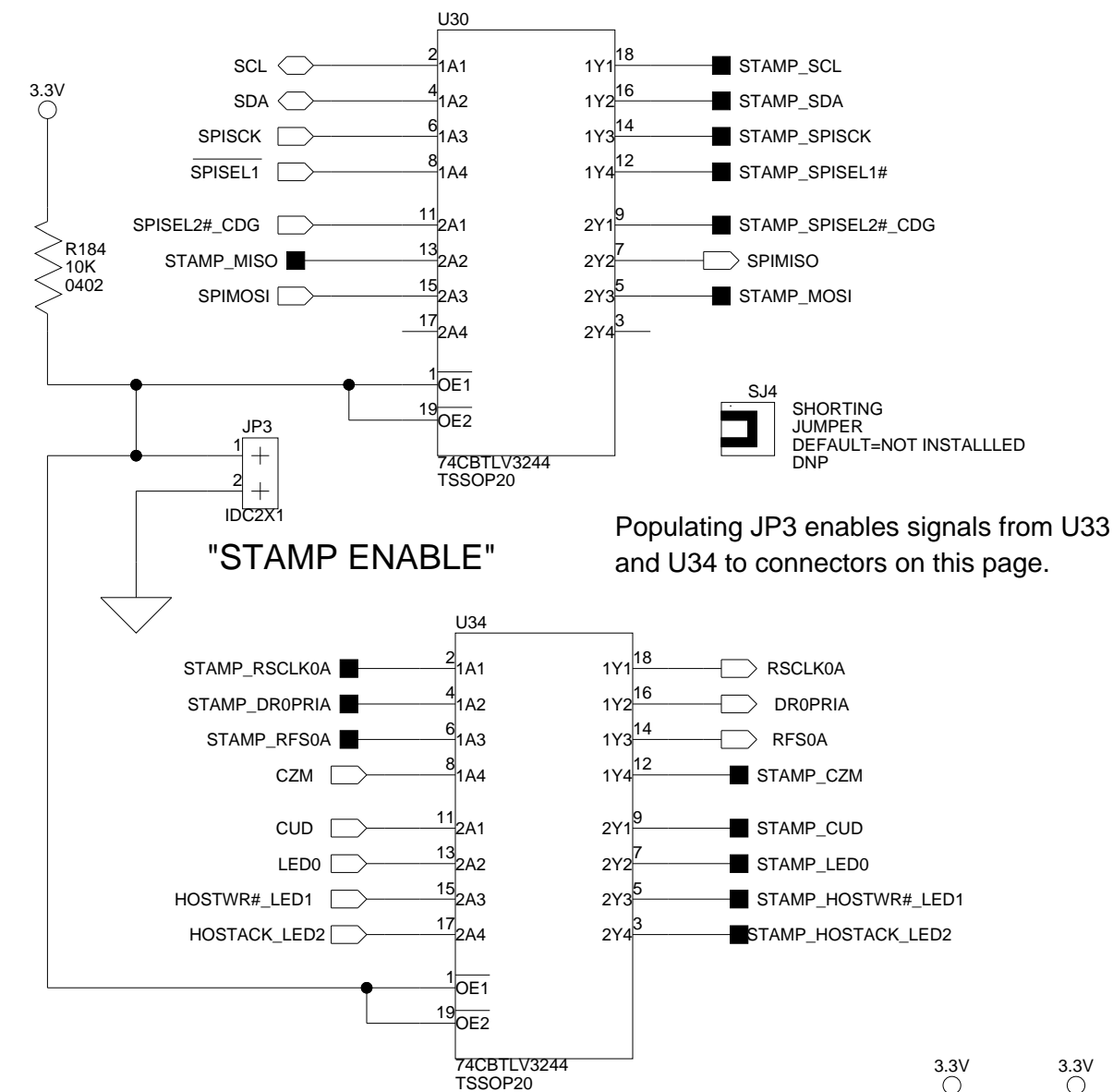
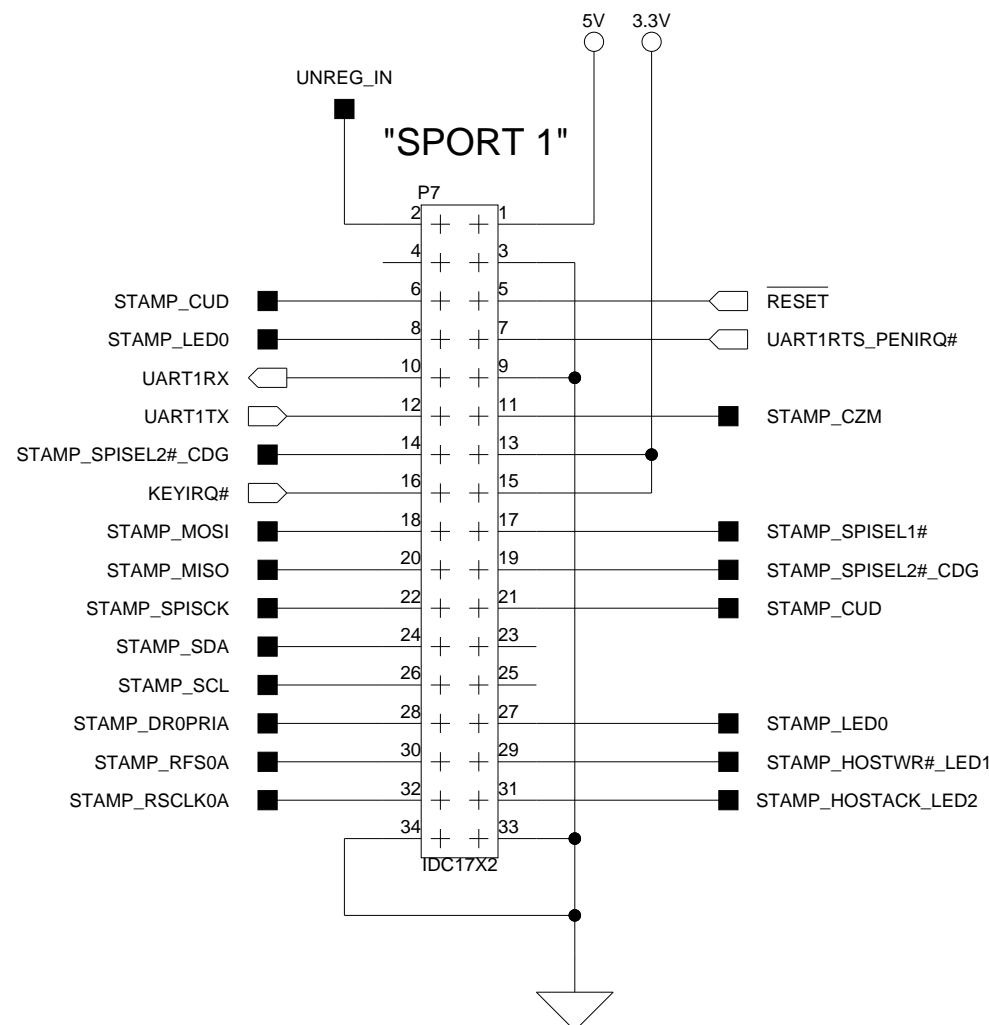
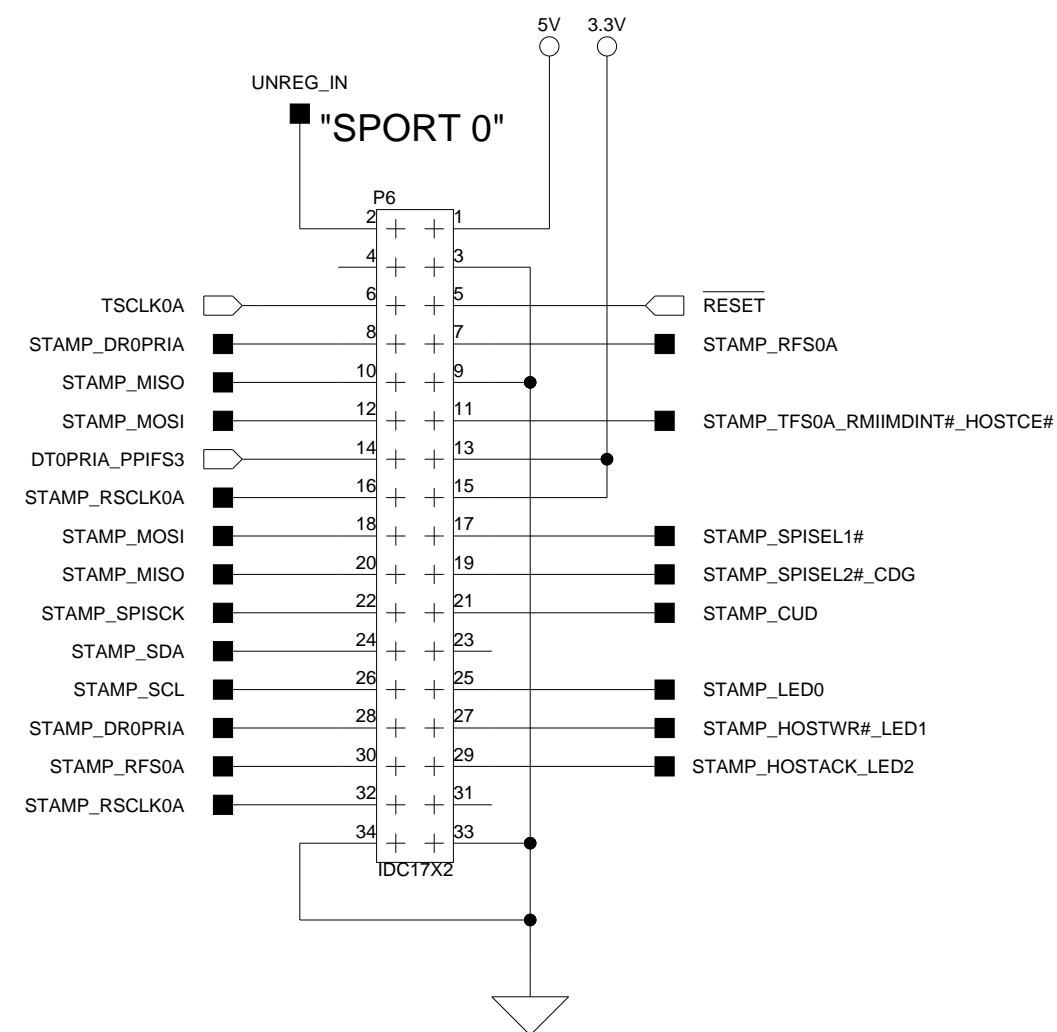
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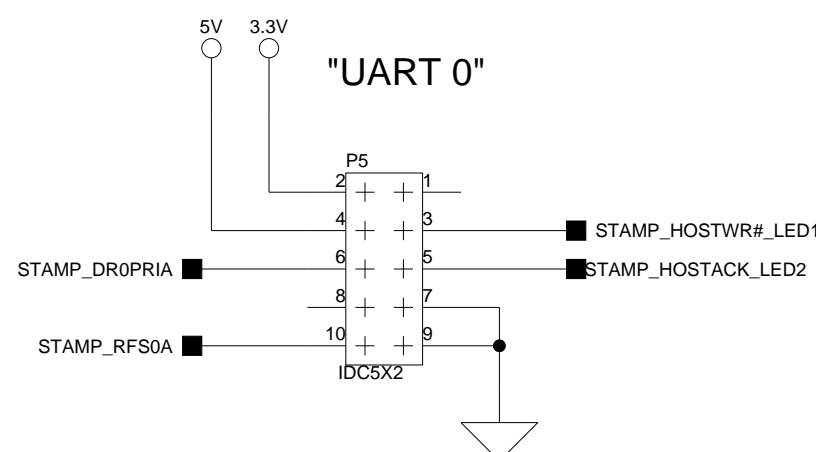
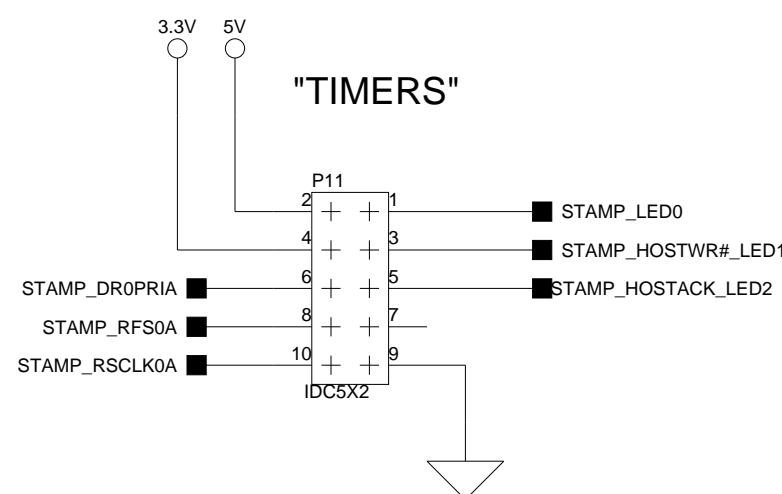
**ANALOG
DEVICES**

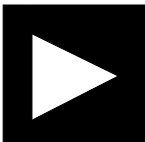
20 Cotton Road
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PH: 1-800-ANALOGD

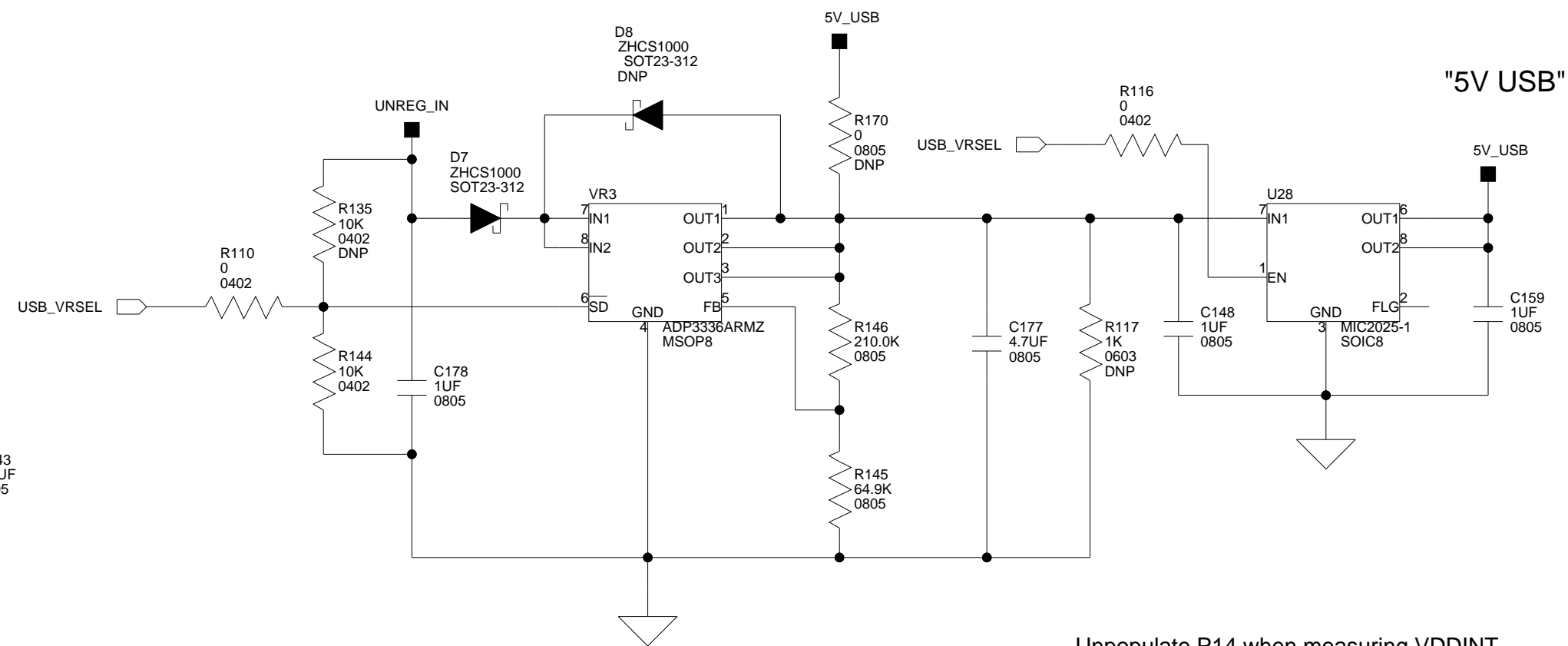
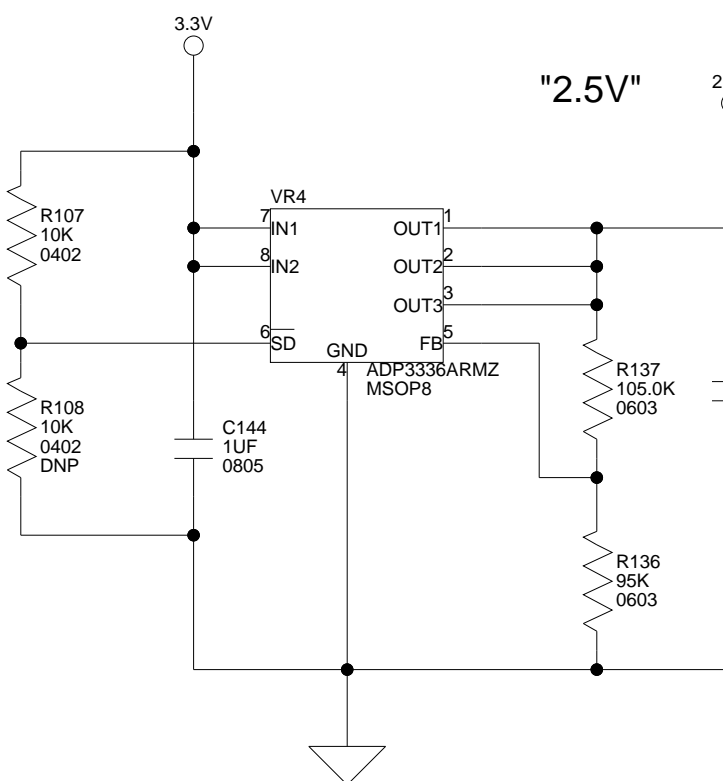
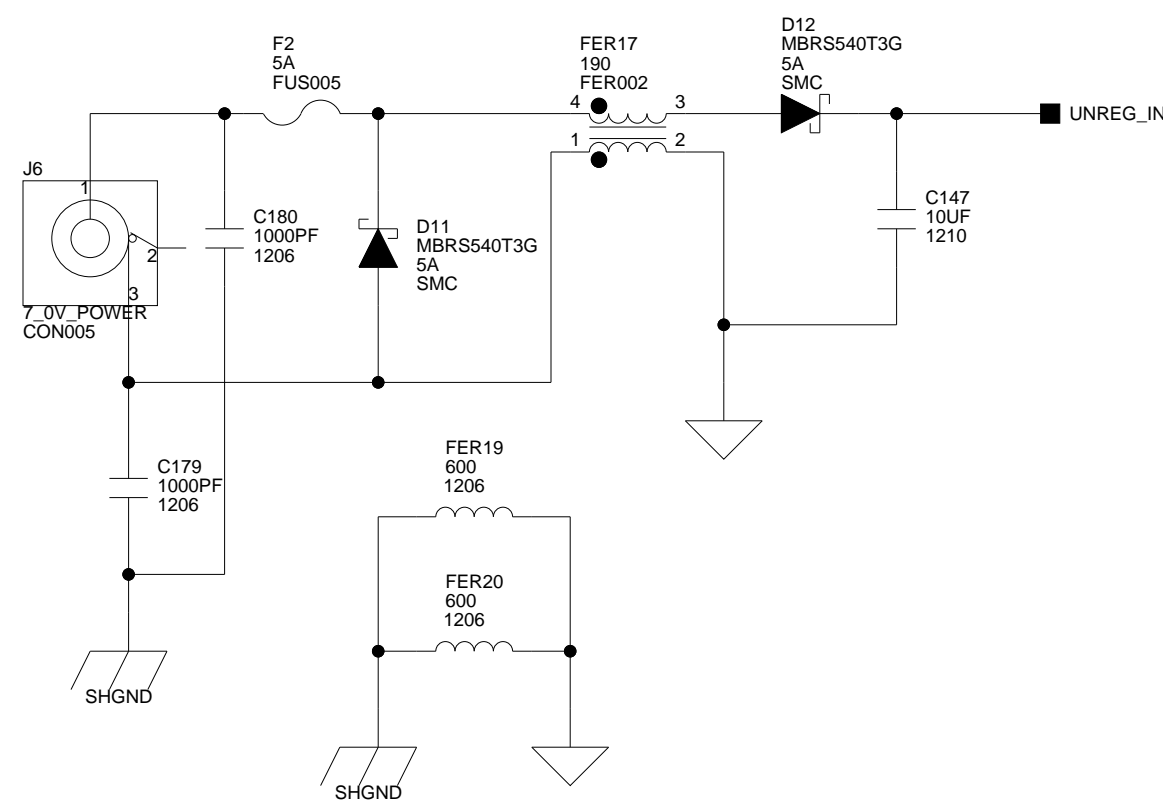
Title			ADSP-527 EZ-KIT Lite EXPANSION INTERFACE & JTAG		
Size C	Board No.		A0208-2006		Rev 2.0
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SW21 disconnects TFS0A_RMIIMDINT#_HOSTCE# from SPORT conn P6.11 and HOST conn P13.6



		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
Title		ADSP-527 EZ-KIT Lite STAMP CONNECTORS	
Size C	Board No. A0208-2006		Rev 2.0
Date	4-28-2009_15:57	Sheet	12 of 13

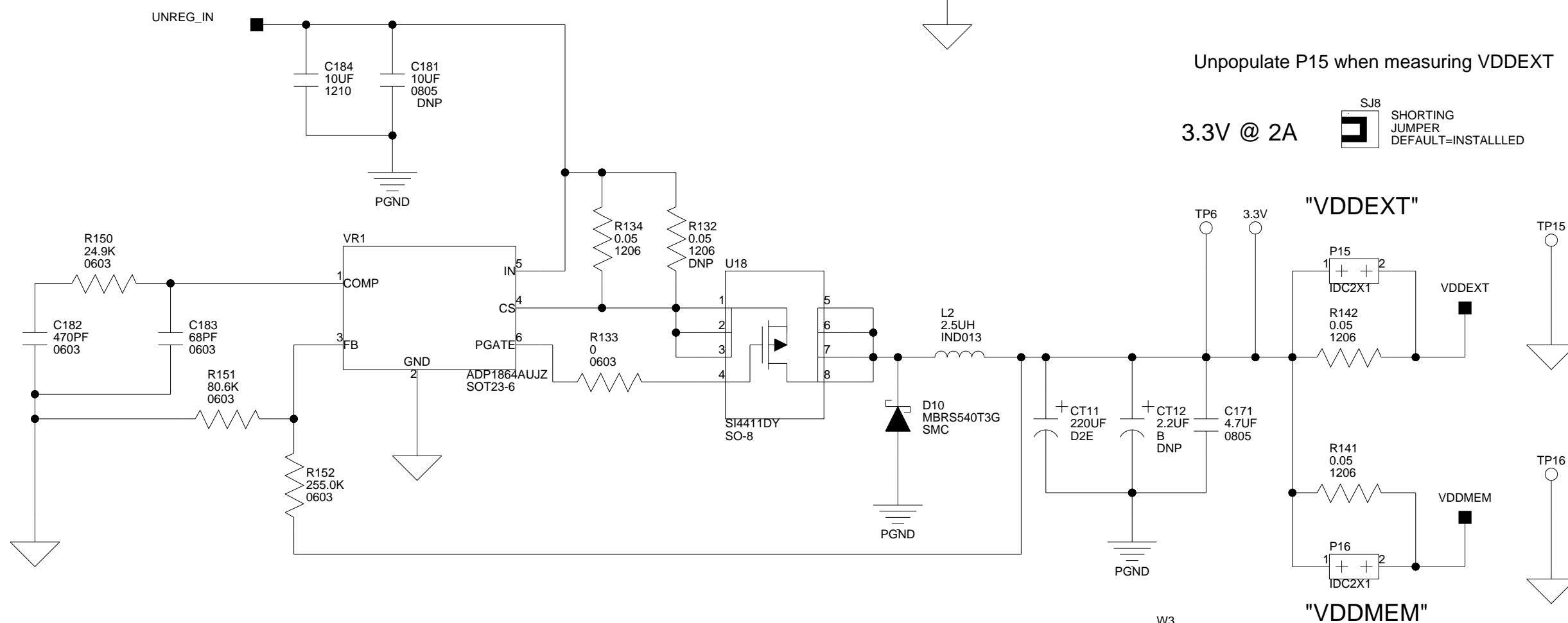


Unpopulate P14 when measuring VDDINT



Unpopulate P15 when measuring VDDEXT

3.3V @ 2A

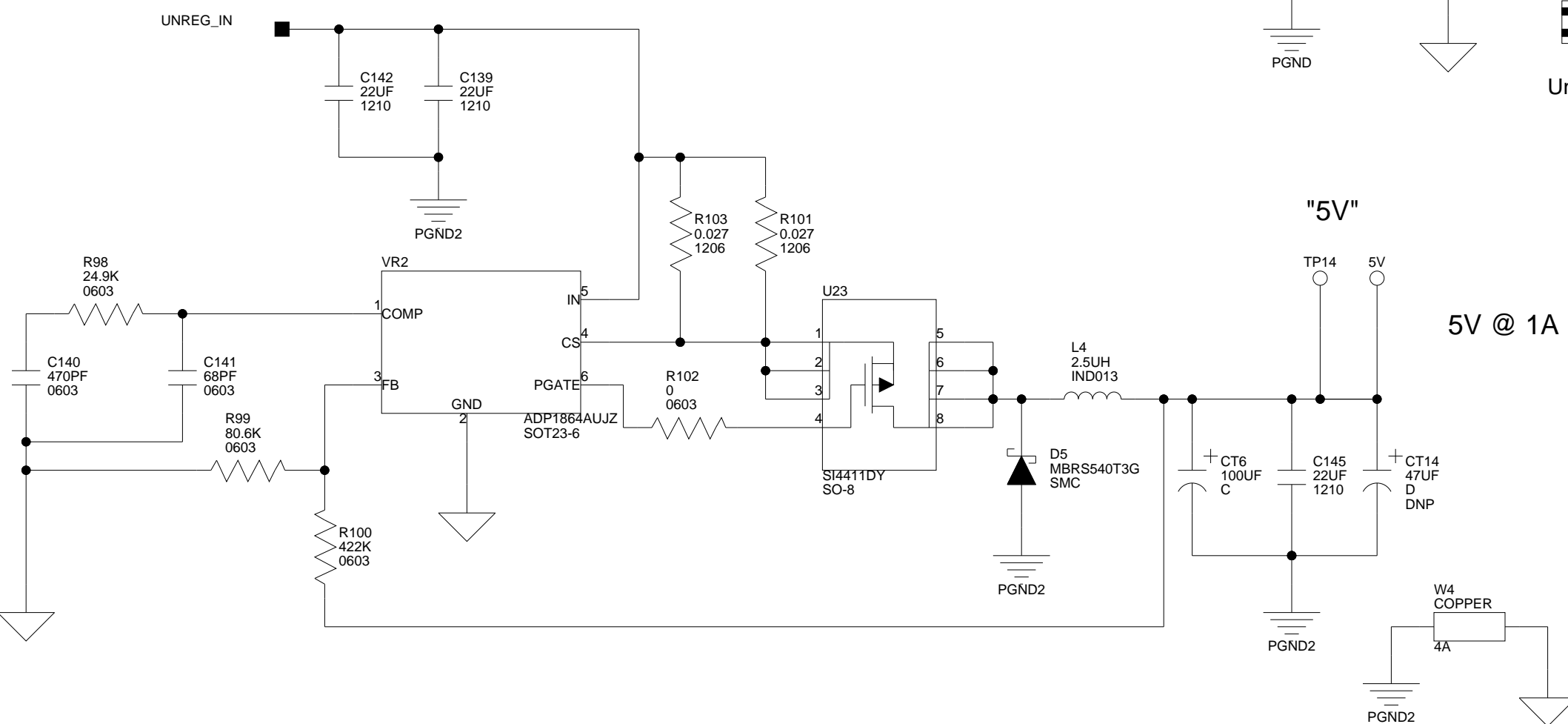


"VDDEXT"

"VDDMEM"



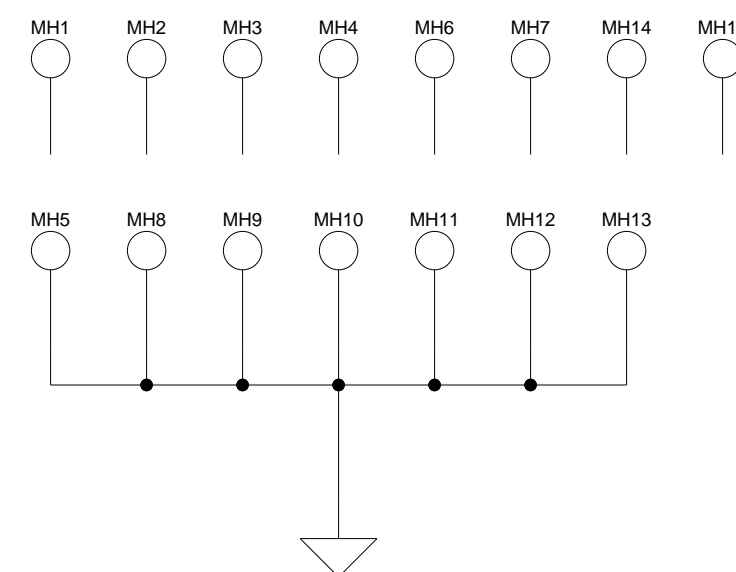
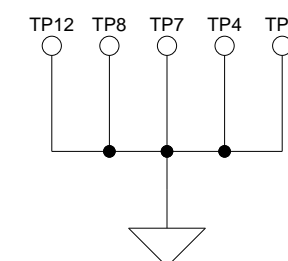
Unpopulate P16 when measuring VDDMEM



"5V"

5V @ 1A

"GND"

**ANALOG
DEVICES**20 Cotton Road
Nashua, NH 03063
PH: 1-800-ANALOGDTitle **ADSP-527 EZ-KIT Lite
POWER**Size
C

Board No.

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2.0

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