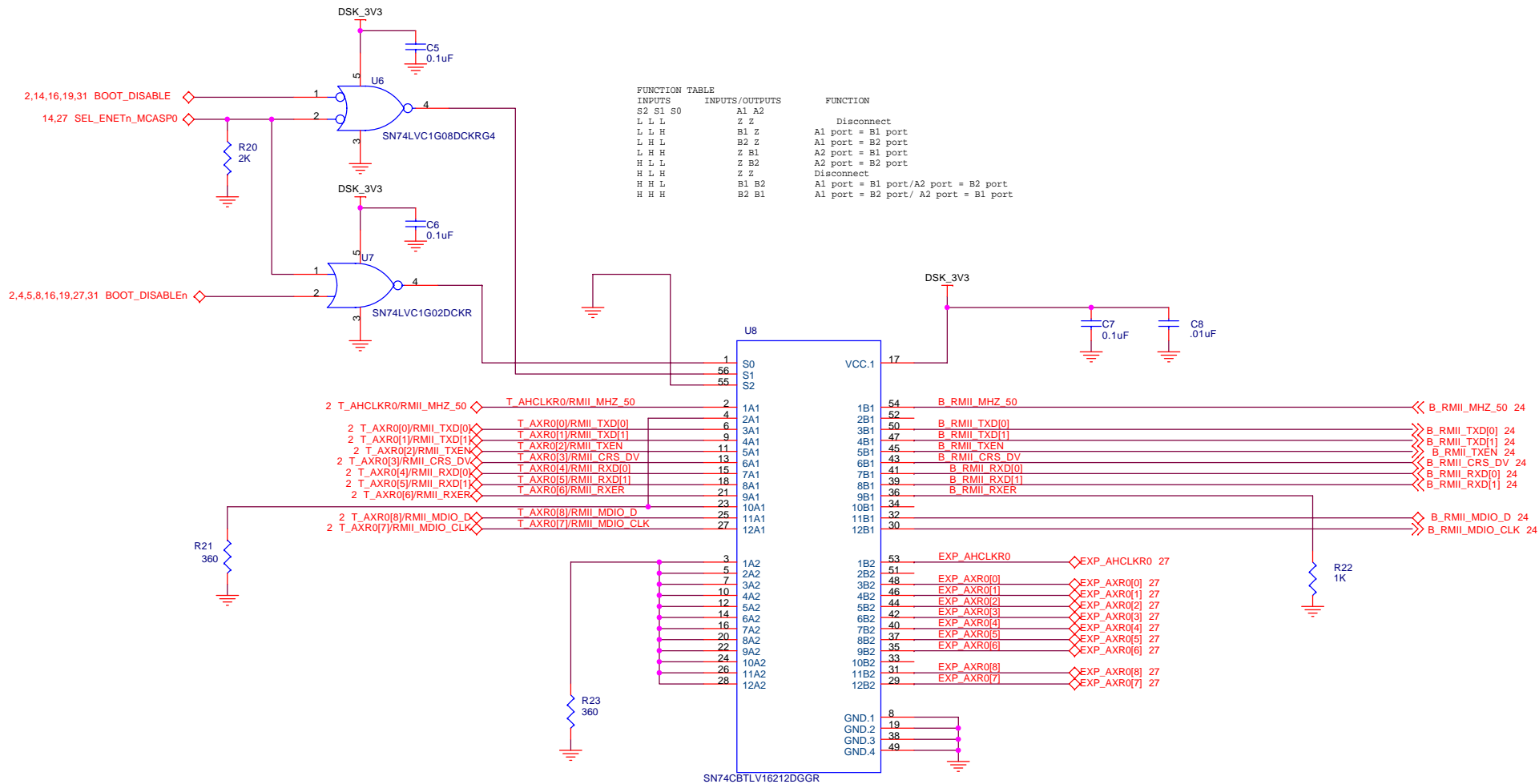
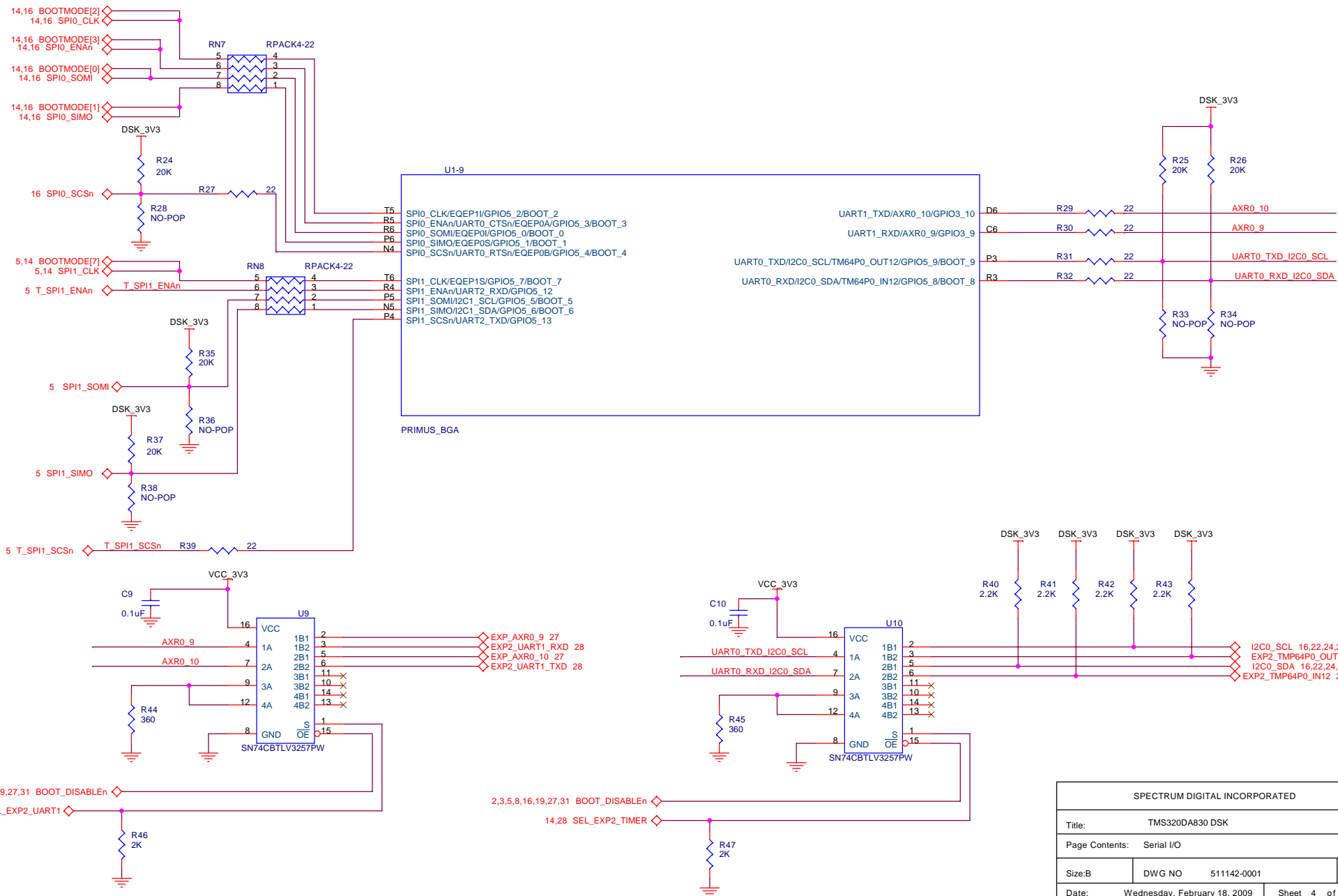


MCLK: AHCLKX1 (drive this clock into McASP)
 BCLK: ACLKX1 (McASP will drive this into the AIC)
 WCLK: AFSX1 (McASP will drive this into the AIC)
 DIN: AXR1[5] (McASP)
 DOUT: AXR1[0] (McASP)
 McASP generates the Tx bit and frame clocks.
 Configure McASP such that the Rx section
 operates off of the Tx section clocks.

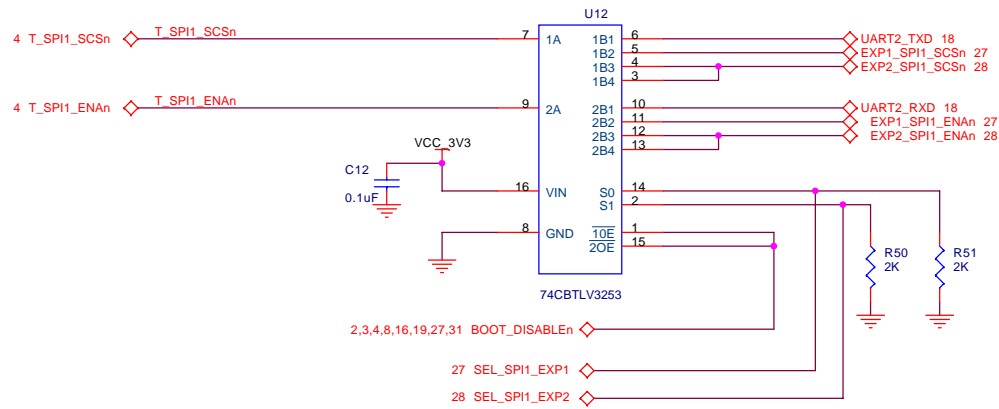
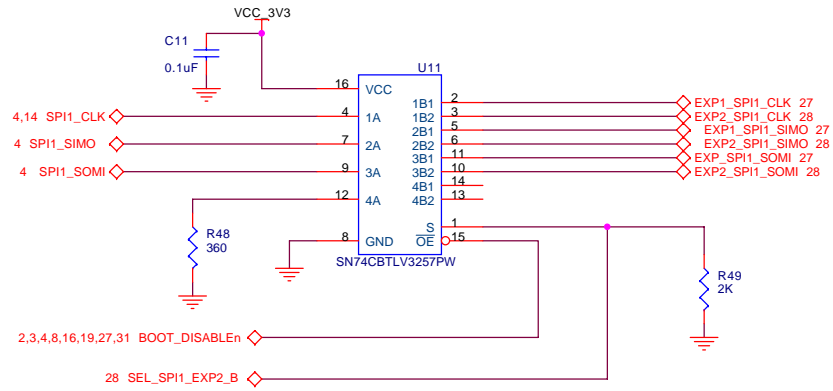
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: McASP/Ethernet MAC			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 2 of	32



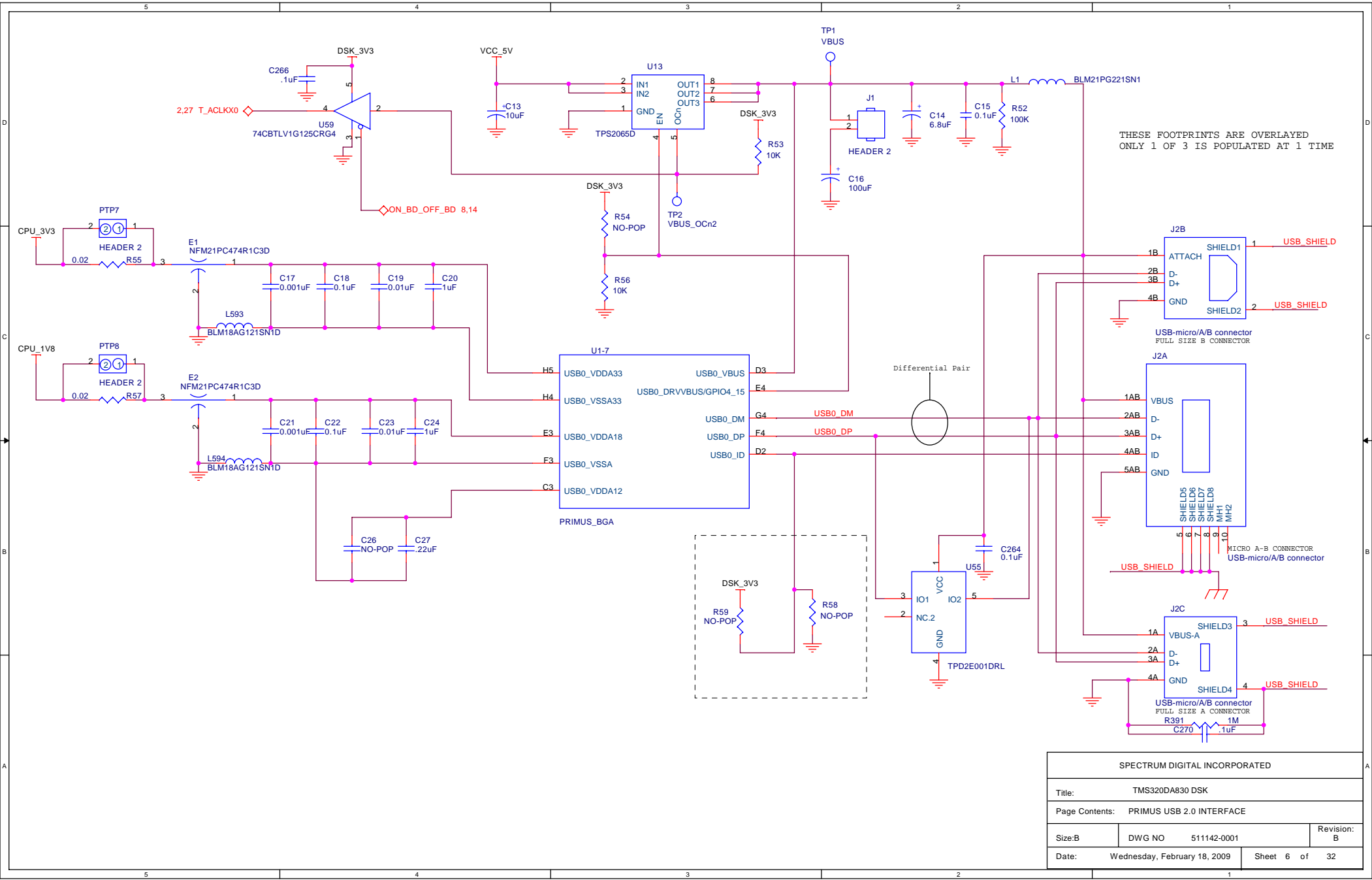
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: Ethernet Muxes			
Size: B	DWG NO	511142-0001	Revision: B
Date:	Wednesday, February 18, 2009	Sheet 3 of	32



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: Serial I/O			
Size: B	DWG NO: 511142-0001	Revision: A	
Date: Wednesday, February 18, 2009	Sheet 4 of 32		

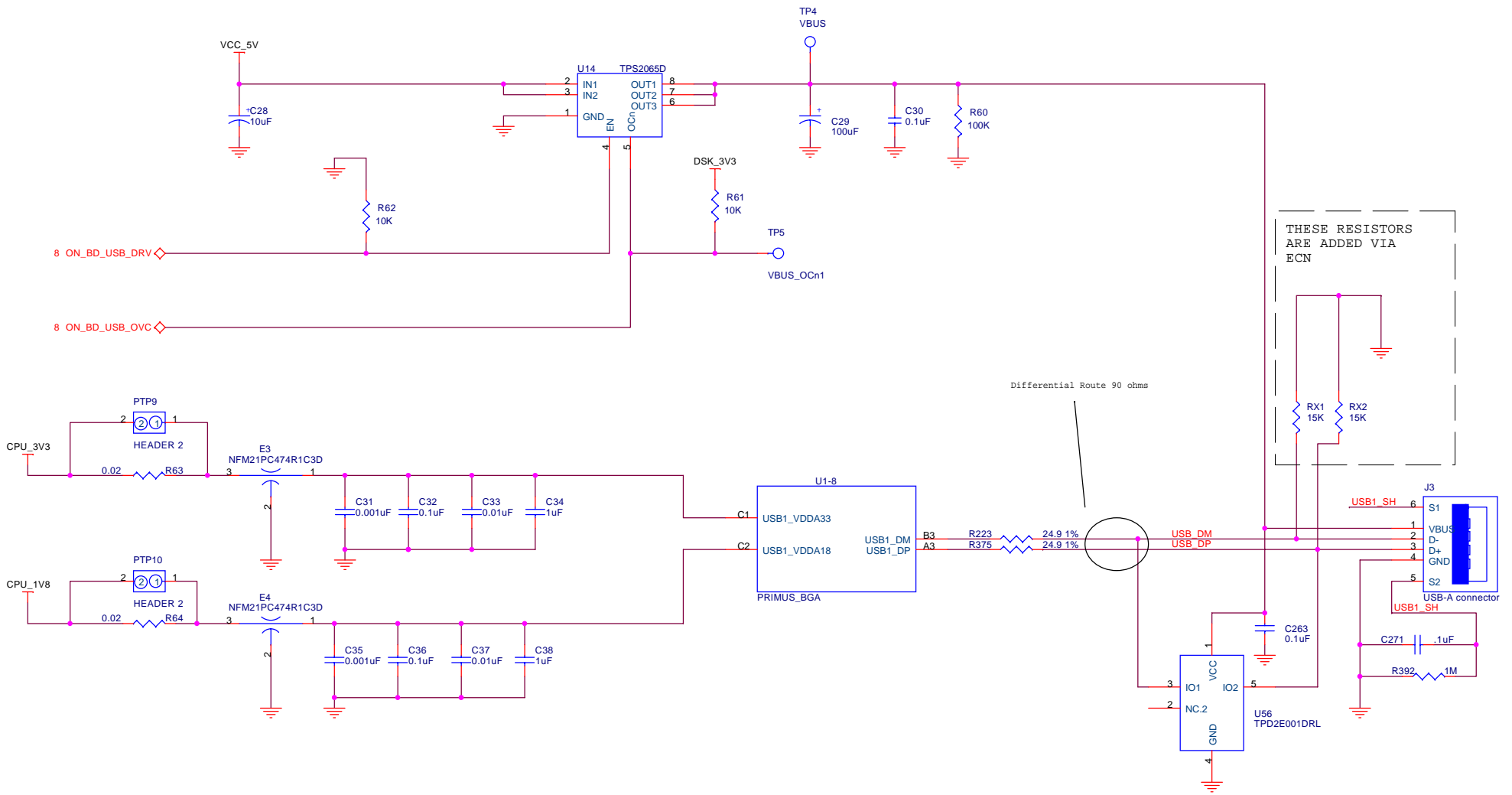


SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: SPI MUXING			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 5 of	32

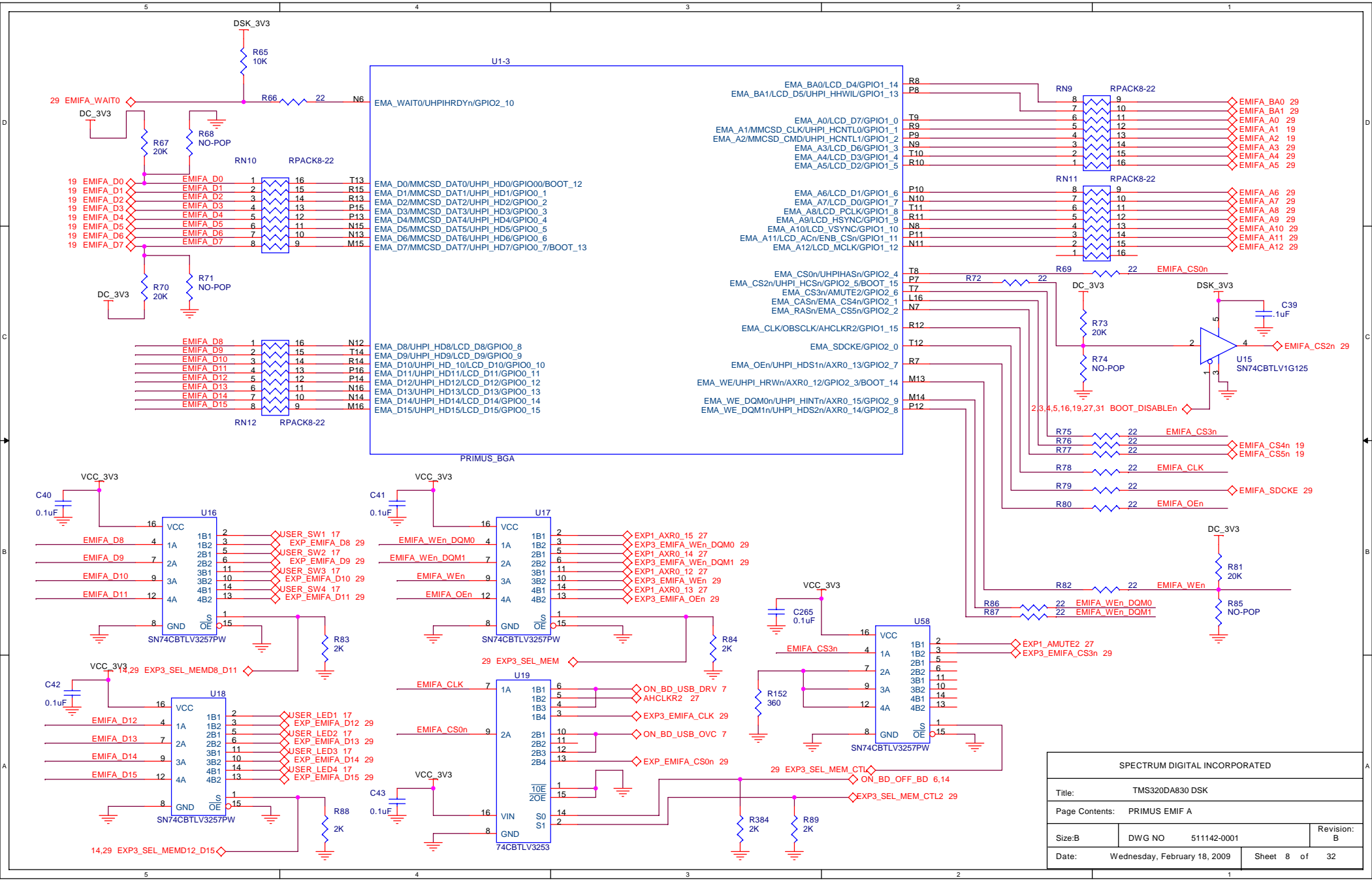


THESE FOOTPRINTS ARE OVERLAYED
ONLY 1 OF 3 IS POPULATED AT 1 TIME

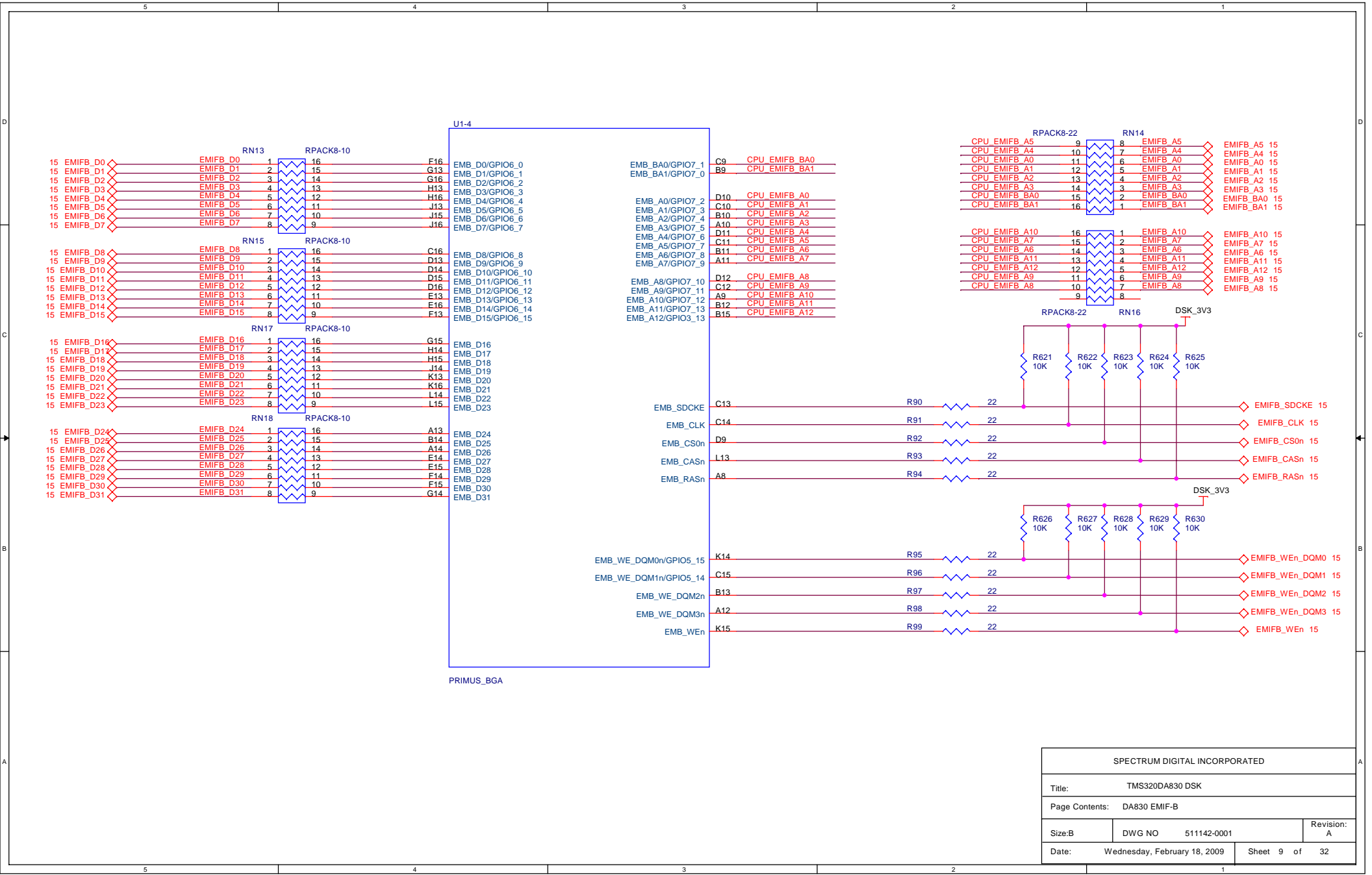
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: PRIMUS USB 2.0 INTERFACE			
Size: B	DWG NO	511142-0001	Revision: B
Date:	Wednesday, February 18, 2009	Sheet 6 of	32



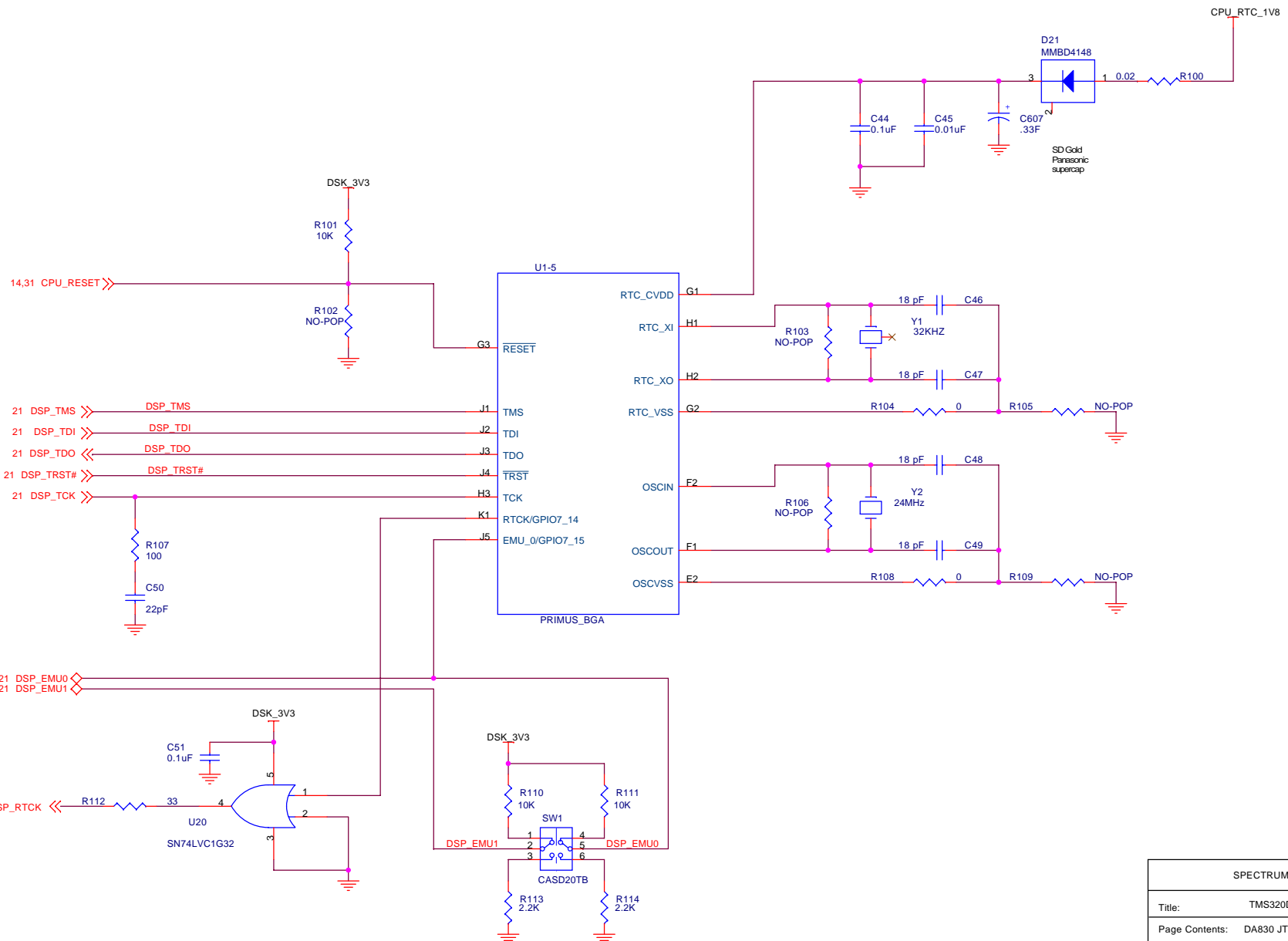
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: USB 1.0 HOST INTERFACE			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 7 of	32



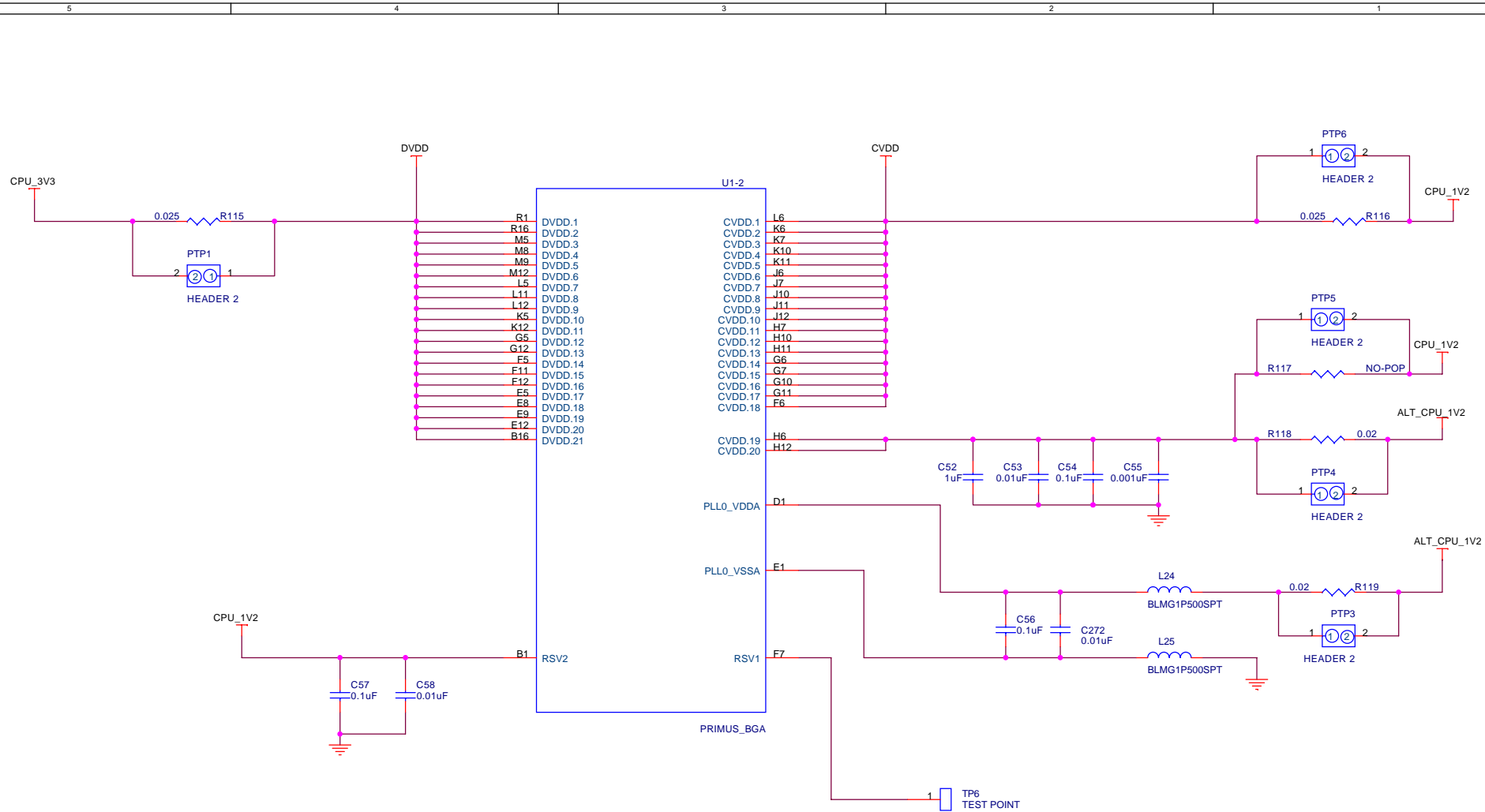
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: PRIMUS EMIF A			
Size: B	DWG NO: 511142-0001	Revision: B	
Date: Wednesday, February 18, 2009	Sheet 8 of 32		



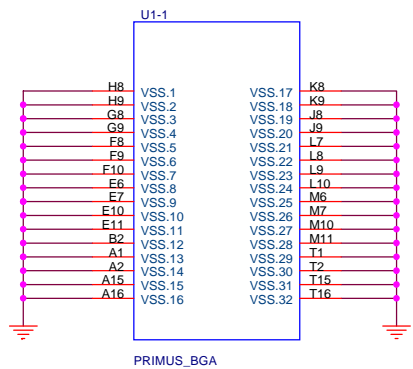
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Title: TMS320DA830 DSK			
Page Contents: DA830 EMIF-B			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 9 of	32



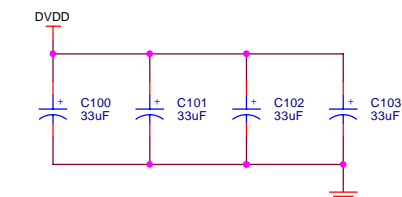
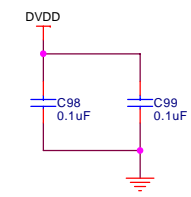
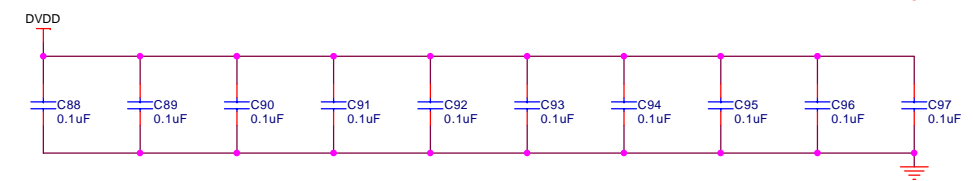
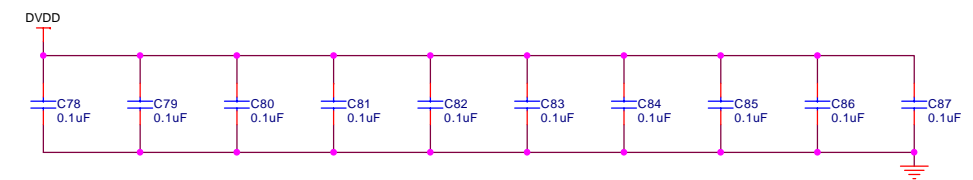
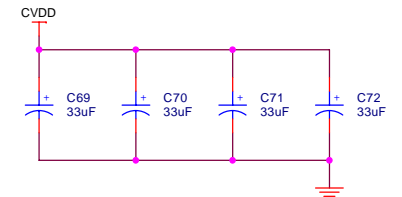
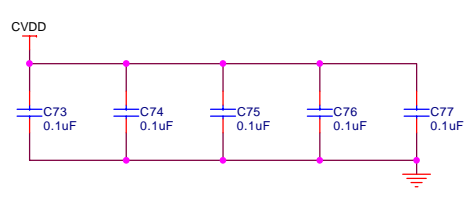
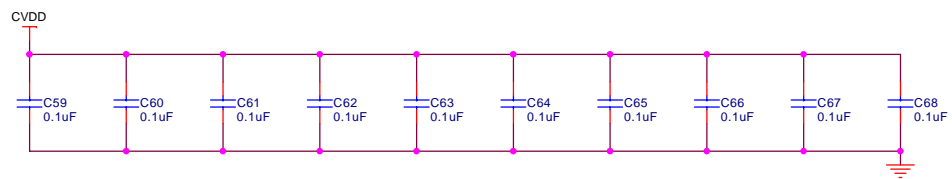
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Title: TMS320DA830 DSK			
Page Contents: DA830 JTAG/CLOCKS			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009		Sheet 10 of 32



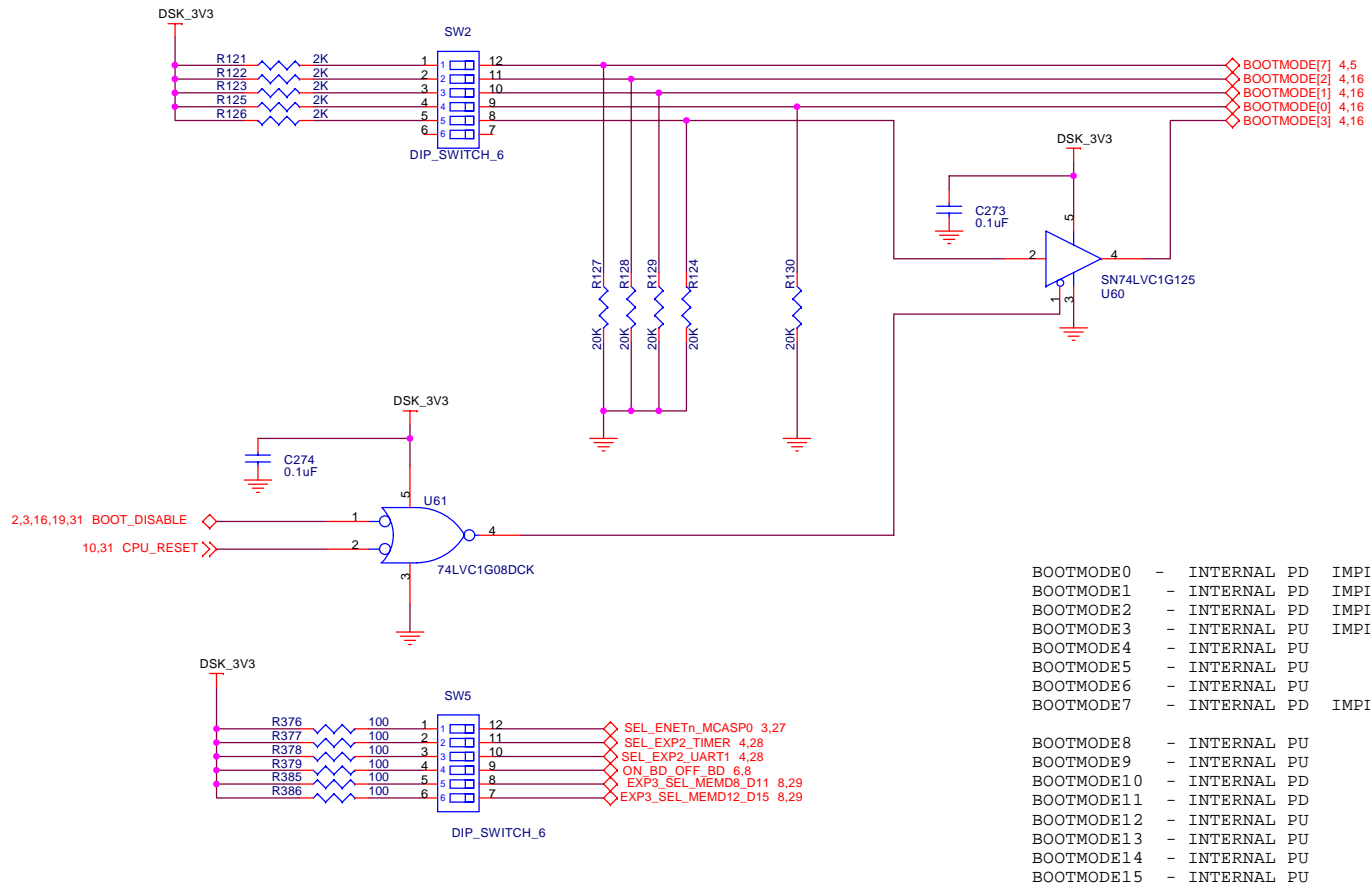
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: PRIMUS POWER PINS			
Size: B	DWG NO	511142-0001	Revision: C
Date:	Wednesday, February 18, 2009		Sheet 11 of 32



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: PRIMUS GROUND PINS			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009		Sheet 12 of 32

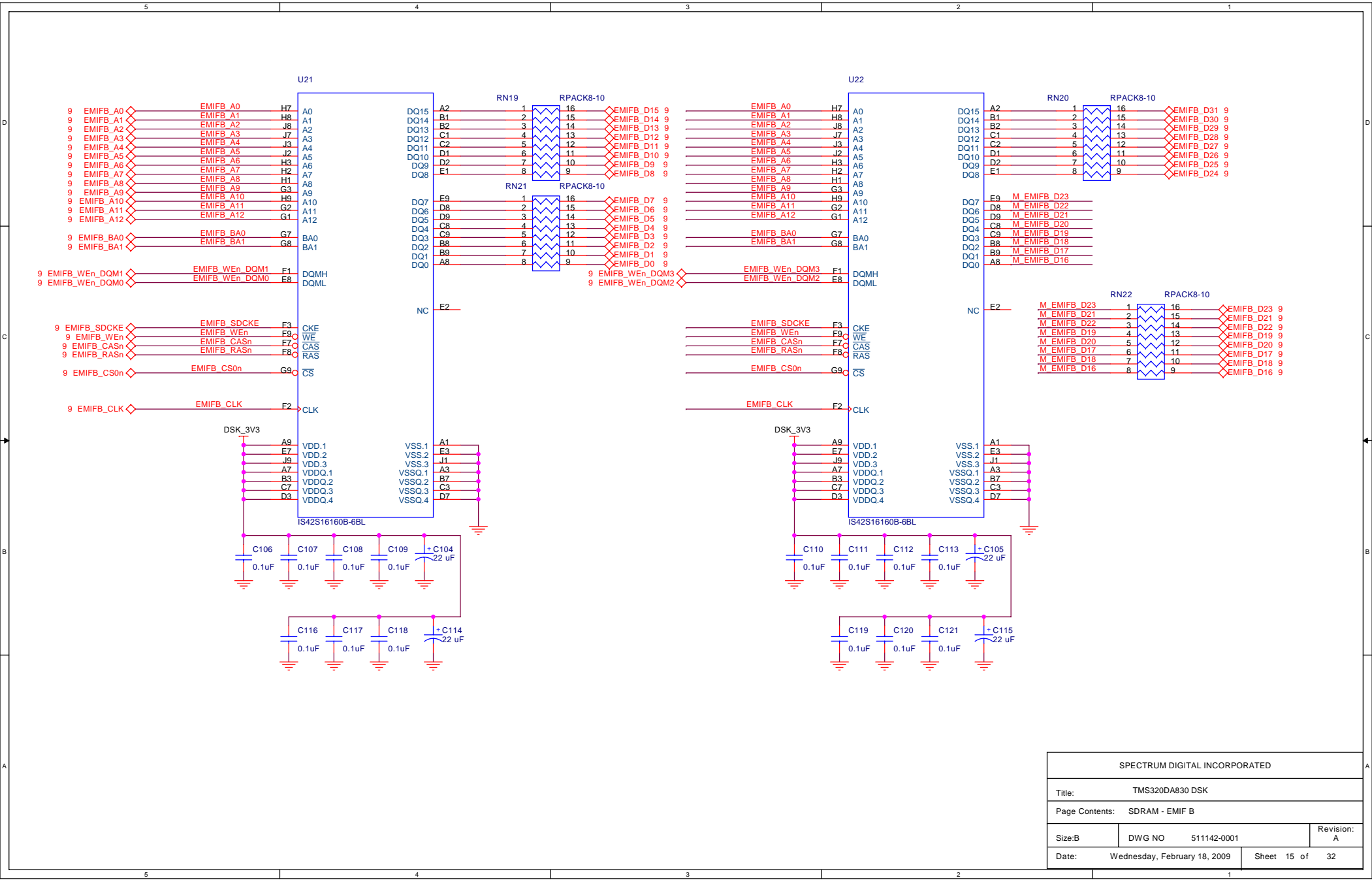


SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: PRIMUS DECOUPLING CAPACITORS			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 13 of	32

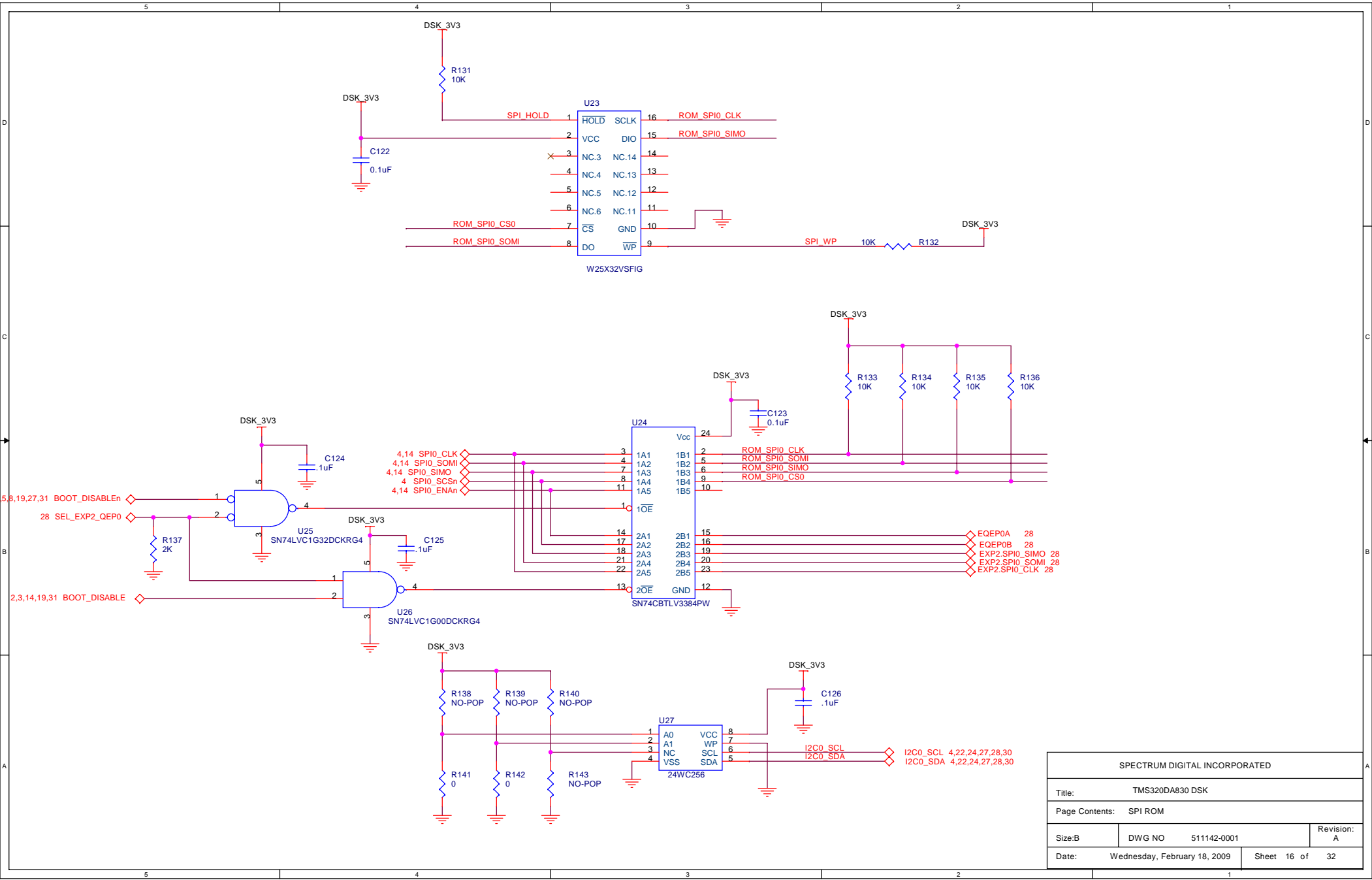


BOOTMODE0	- INTERNAL PD	IMPLEMENTED	
BOOTMODE1	- INTERNAL PD	IMPLEMENTED	
BOOTMODE2	- INTERNAL PD	IMPLEMENTED	
BOOTMODE3	- INTERNAL PU	IMPLEMENTED	
BOOTMODE4	- INTERNAL PU		DONE
BOOTMODE5	- INTERNAL PU		DONE
BOOTMODE6	- INTERNAL PU		DONE
BOOTMODE7	- INTERNAL PD	IMPLEMENTED	
BOOTMODE8	- INTERNAL PU		DONE
BOOTMODE9	- INTERNAL PU		DONE
BOOTMODE10	- INTERNAL PD		DONE
BOOTMODE11	- INTERNAL PD		DONE
BOOTMODE12	- INTERNAL PU		DONE
BOOTMODE13	- INTERNAL PU		DONE
BOOTMODE14	- INTERNAL PU		DONE
BOOTMODE15	- INTERNAL PU		DONE

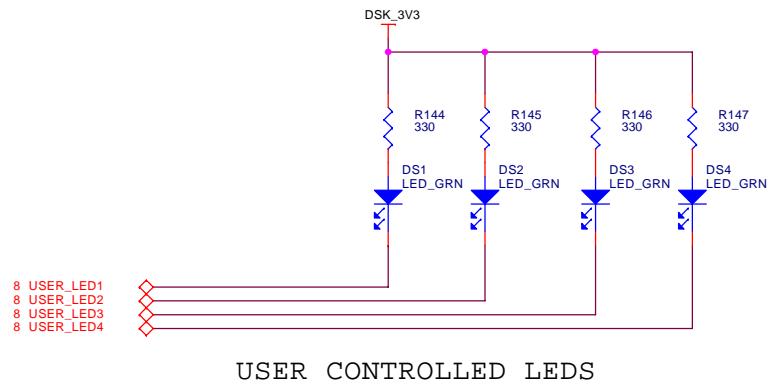
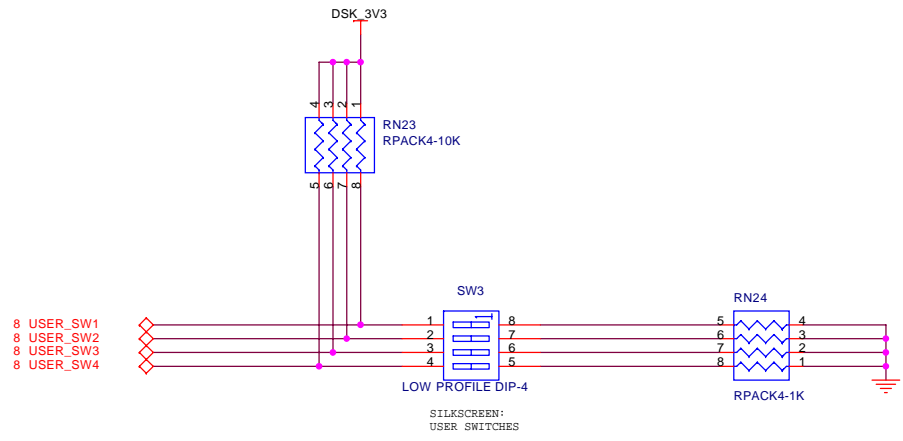
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: BOOT MODES			
Size: B	DWG NO	511142-0001	Revision: C
Date:	Wednesday, February 18, 2009	Sheet 14 of	32



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: SDRAM - EMIF B			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 15 of	32

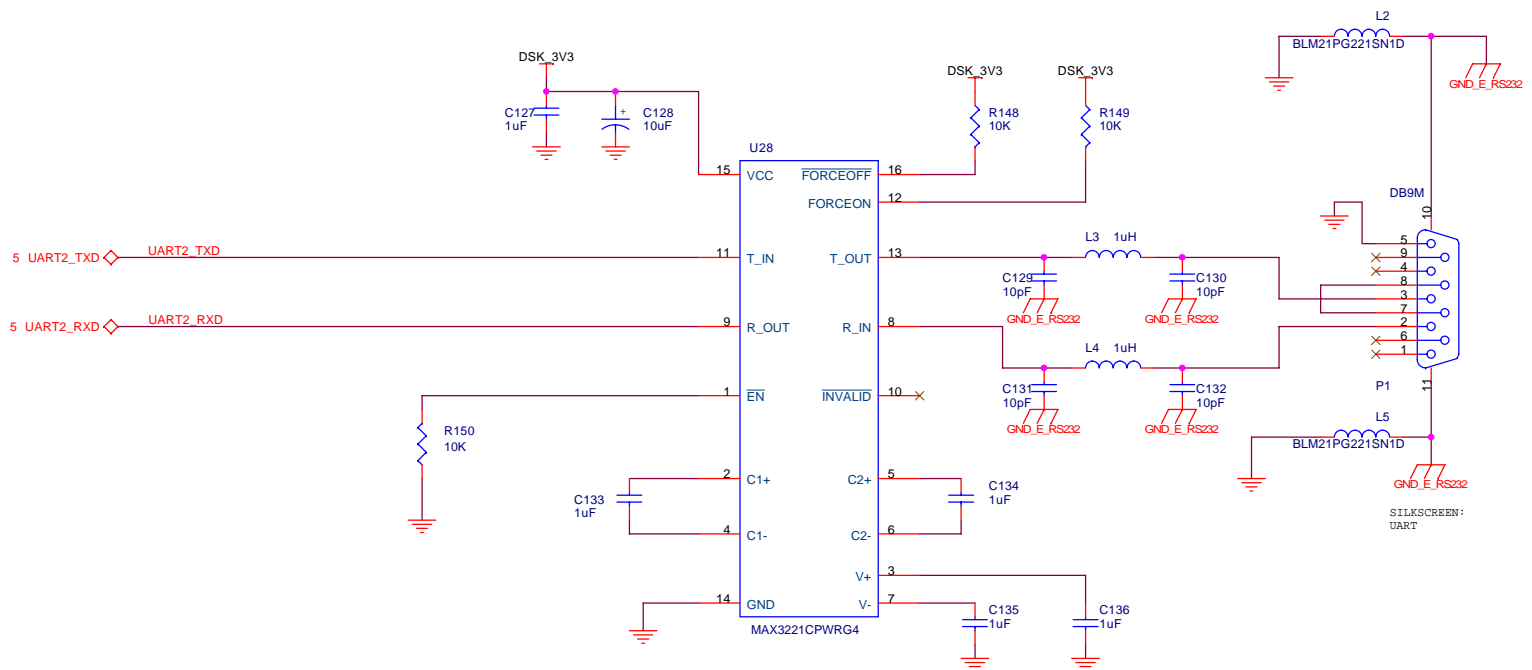


SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: SPI ROM			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009		Sheet 16 of 32



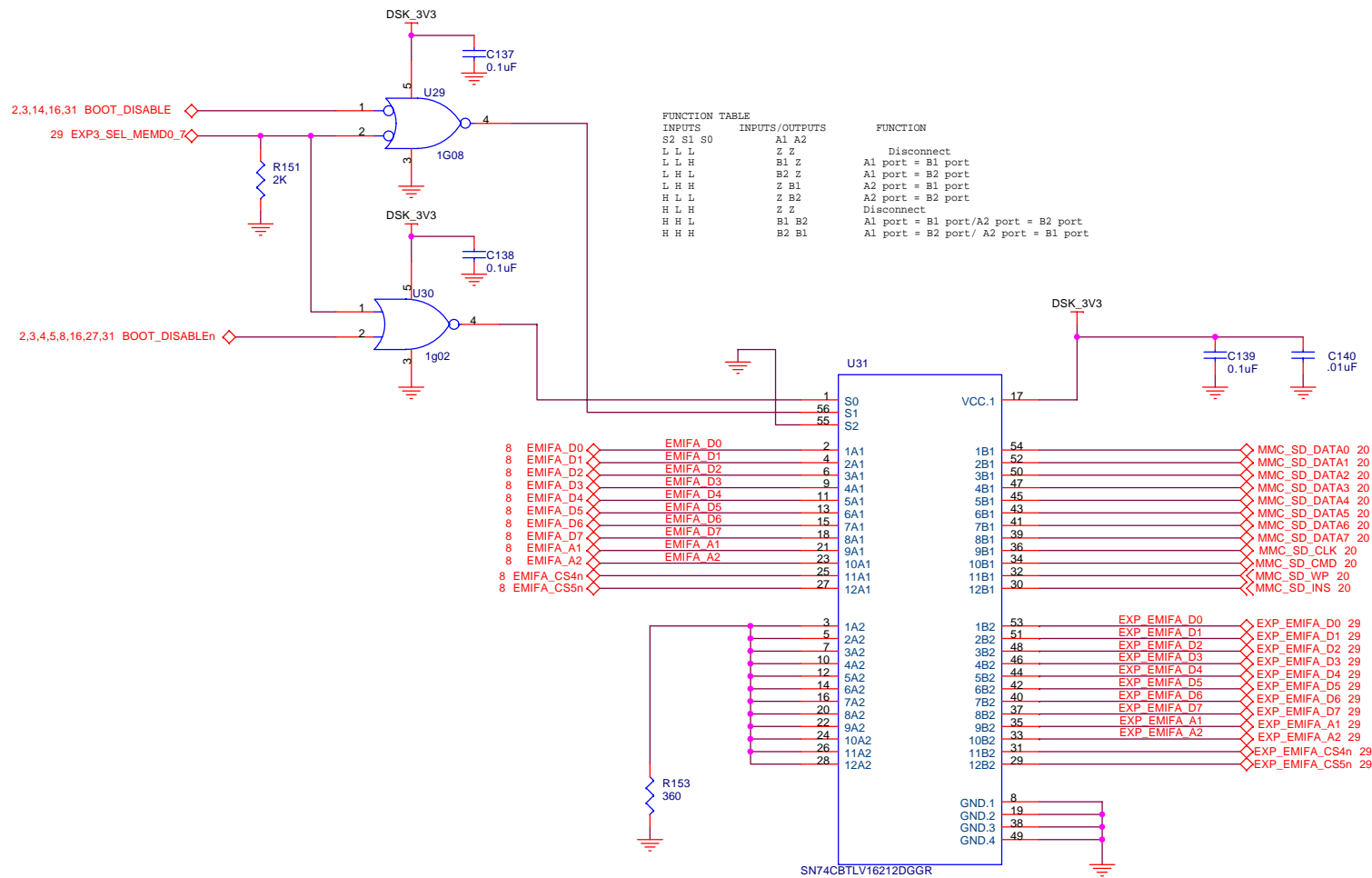
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: USER SWITCHES LEDS			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 17 of	32

5 4 3 2 1



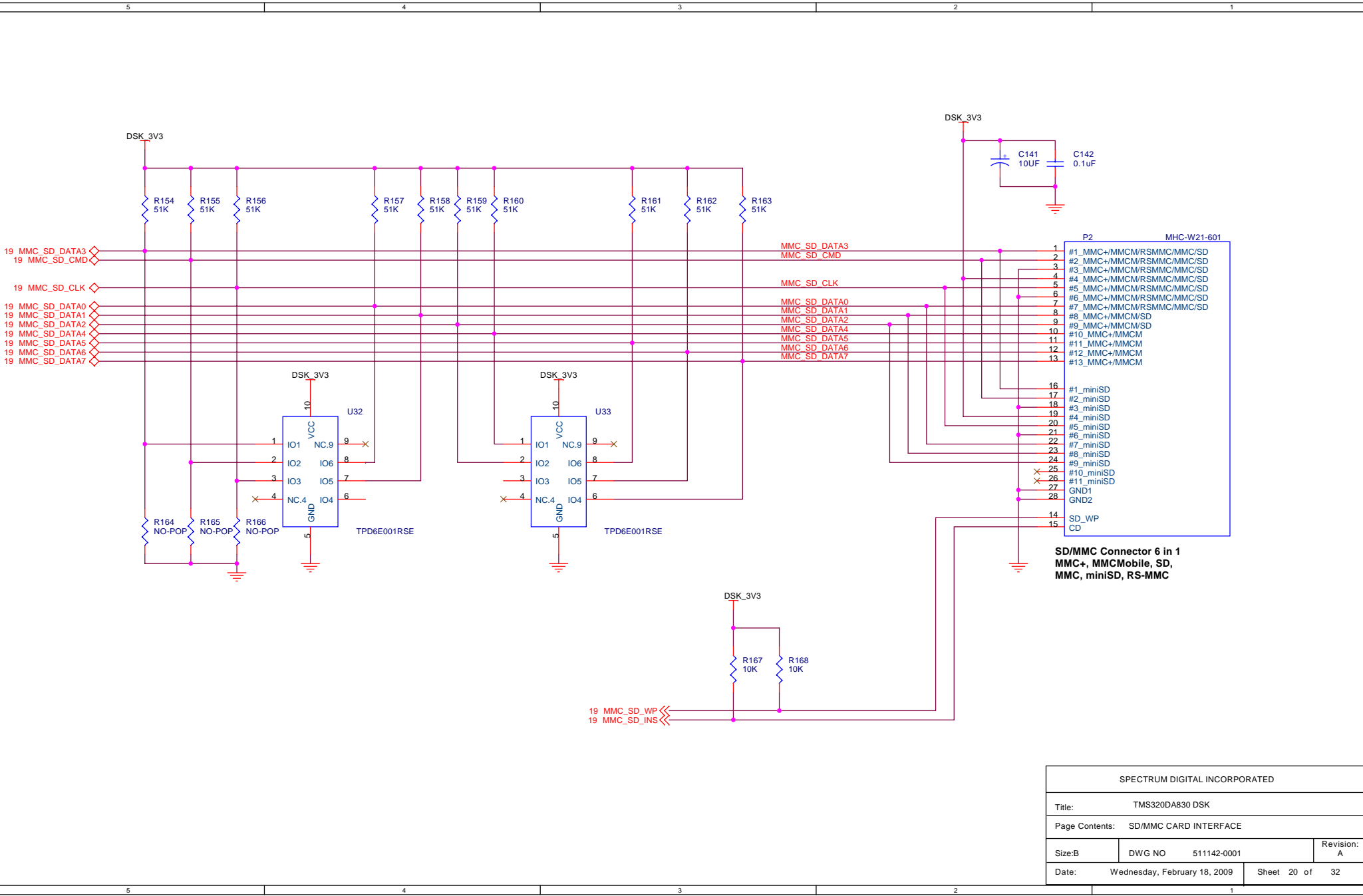
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Title: TMS320DA830 DSK			
Page Contents: RS232			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 18 of	32

5 4 3 2 1

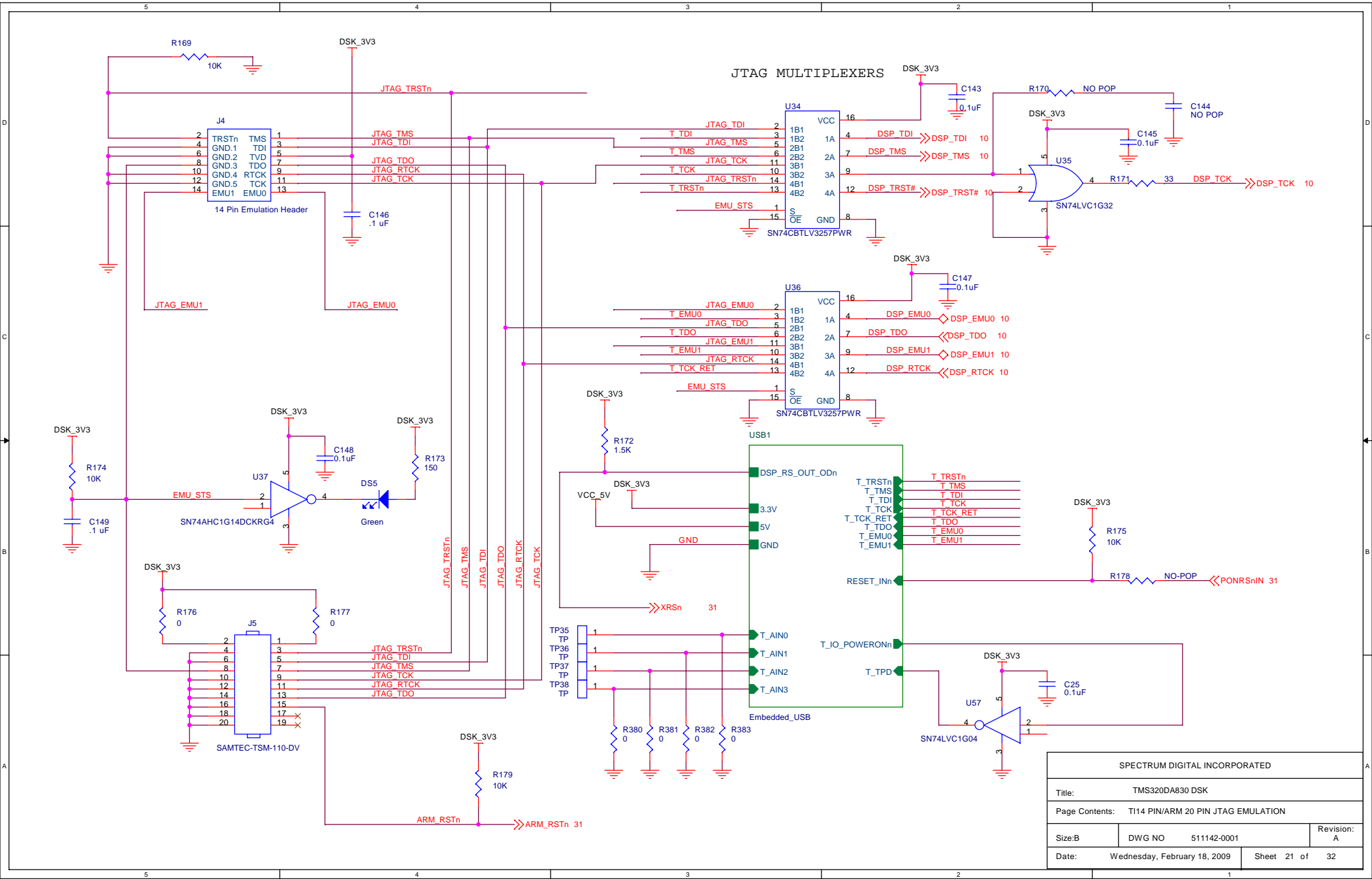


FUNCTION TABLE		INPUTS/OUTPUTS		FUNCTION	
S2	S1	S0	A1	A2	
L	L	L	Z	Z	Disconnect
L	L	H	B1	Z	A1 port = B1 port
L	H	L	B2	Z	A1 port = B2 port
L	H	H	Z	B1	A2 port = B1 port
H	L	L	Z	B2	A2 port = B2 port
H	L	H	Z	Z	Disconnect
H	H	L	B1	B2	A1 port = B1 port/A2 port = B2 port
H	H	H	B2	B1	A1 port = B2 port/A2 port = B1 port

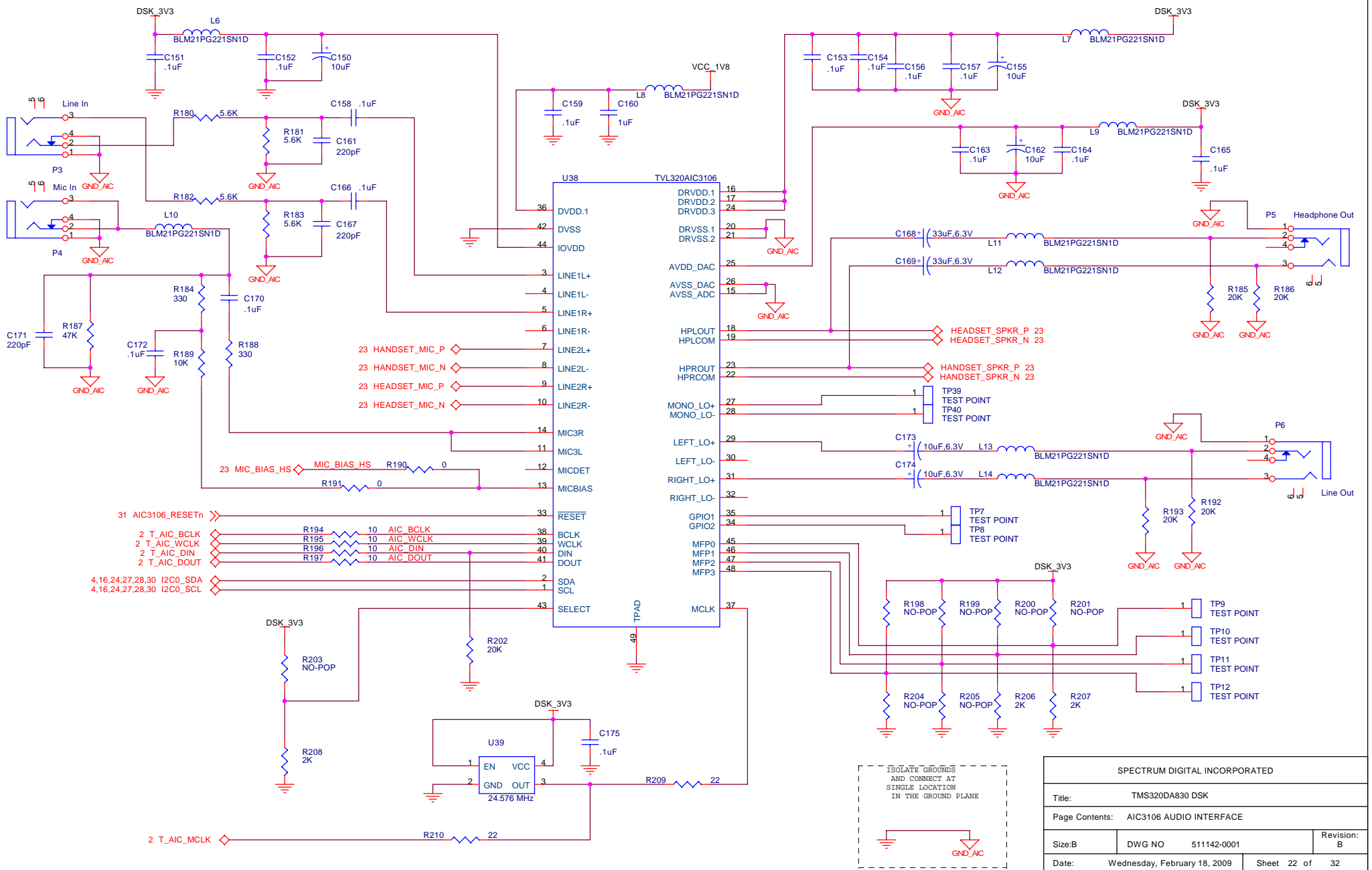
SPECTRUM DIGITAL INCORPORATED			
Title: DA830 EVM			
Page Contents: SD/MMC CARDMUXING			
Size: B	DWG NO	511142-0001	Revision: B
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SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: SD/MMC CARD INTERFACE			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 20 of	32

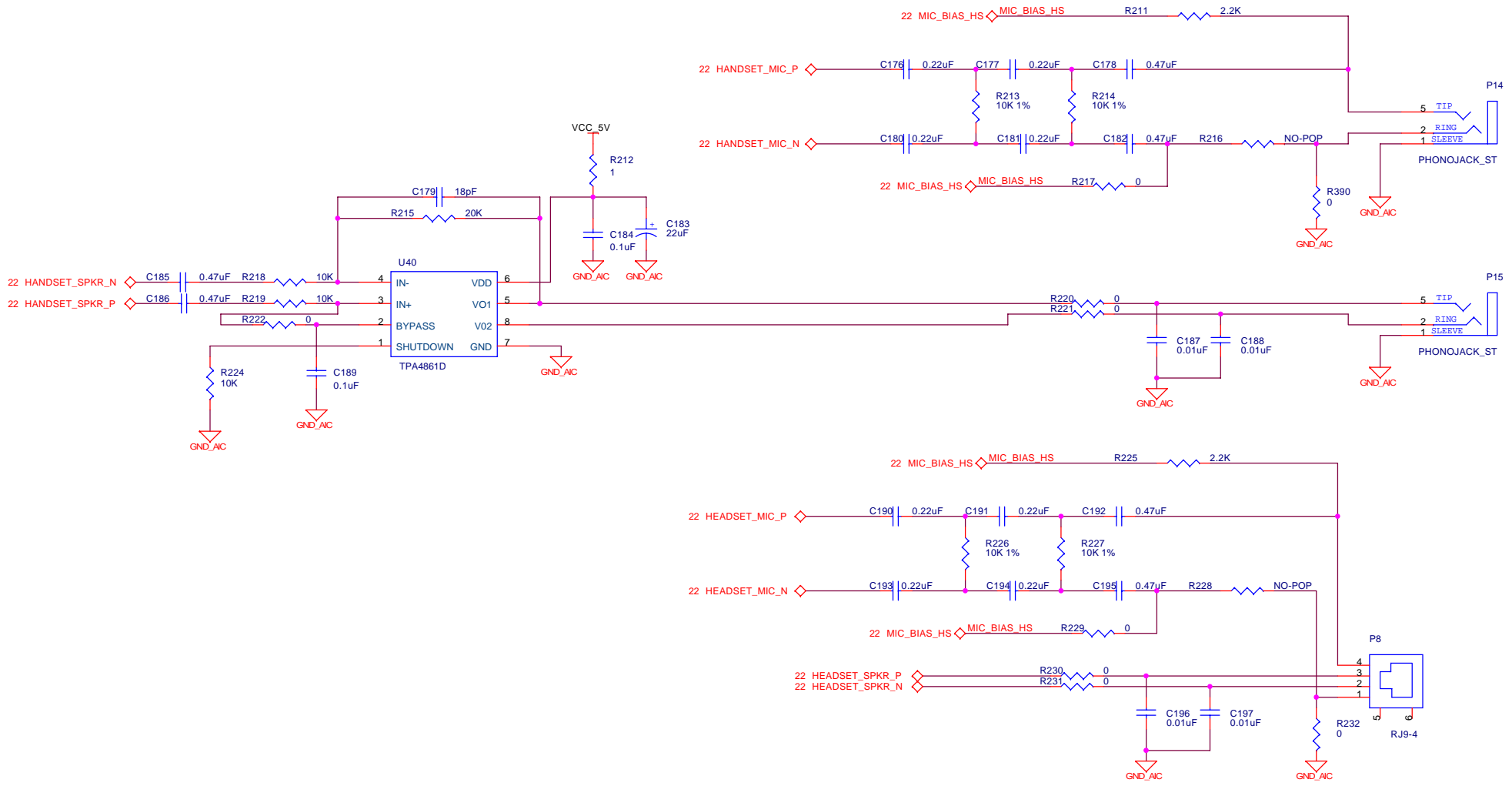


SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: T114 PIN/ARM 20 PIN JTAG EMULATION			
Size: B	DWG NO: 511142-0001	Revision: A	
Date: Wednesday, February 18, 2009	Sheet 21 of 32		

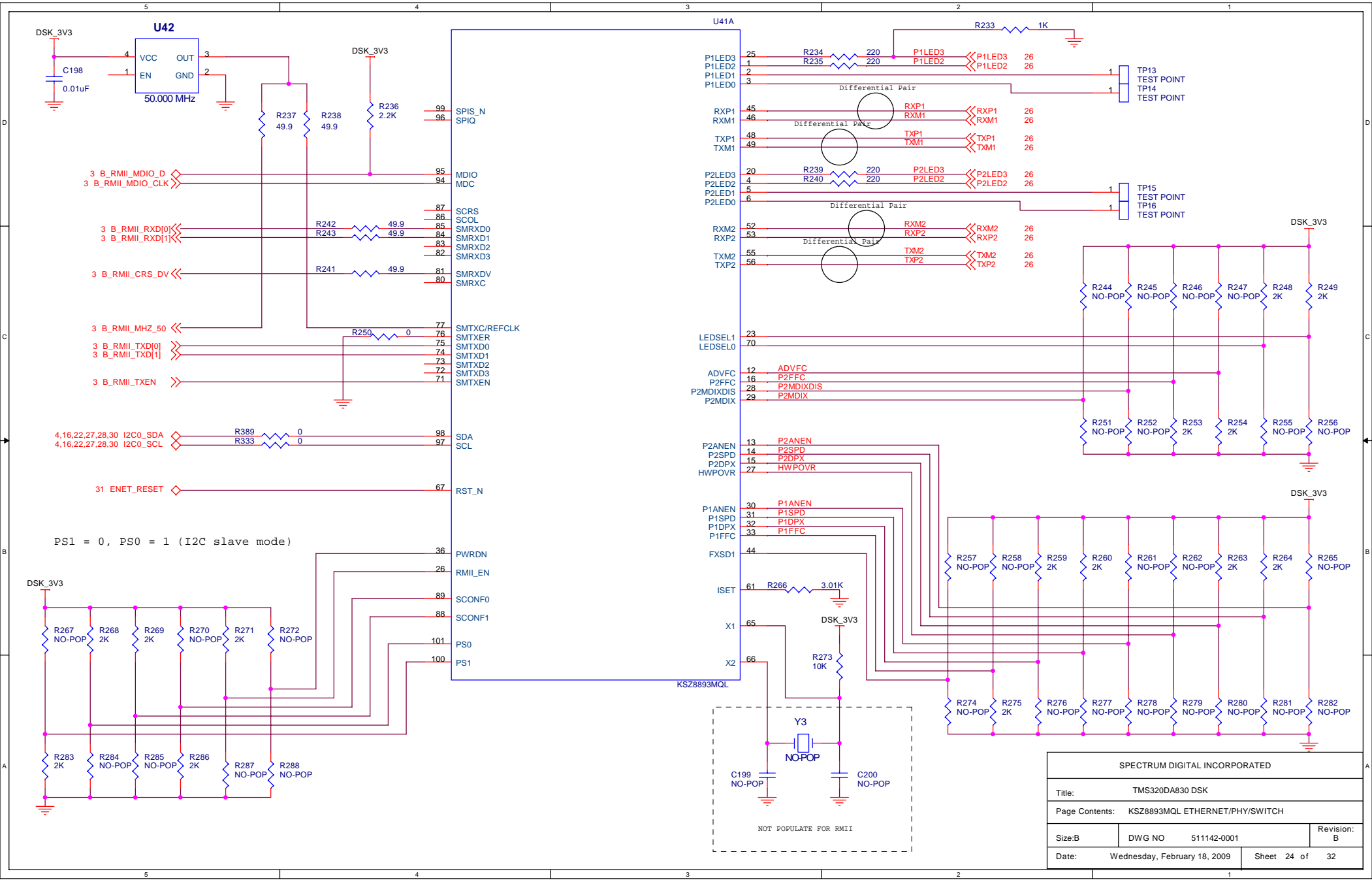


ISOLATE GROUNDS
AND CONNECT AT
SINGLE LOCATION
IN THE GROUND PLANE

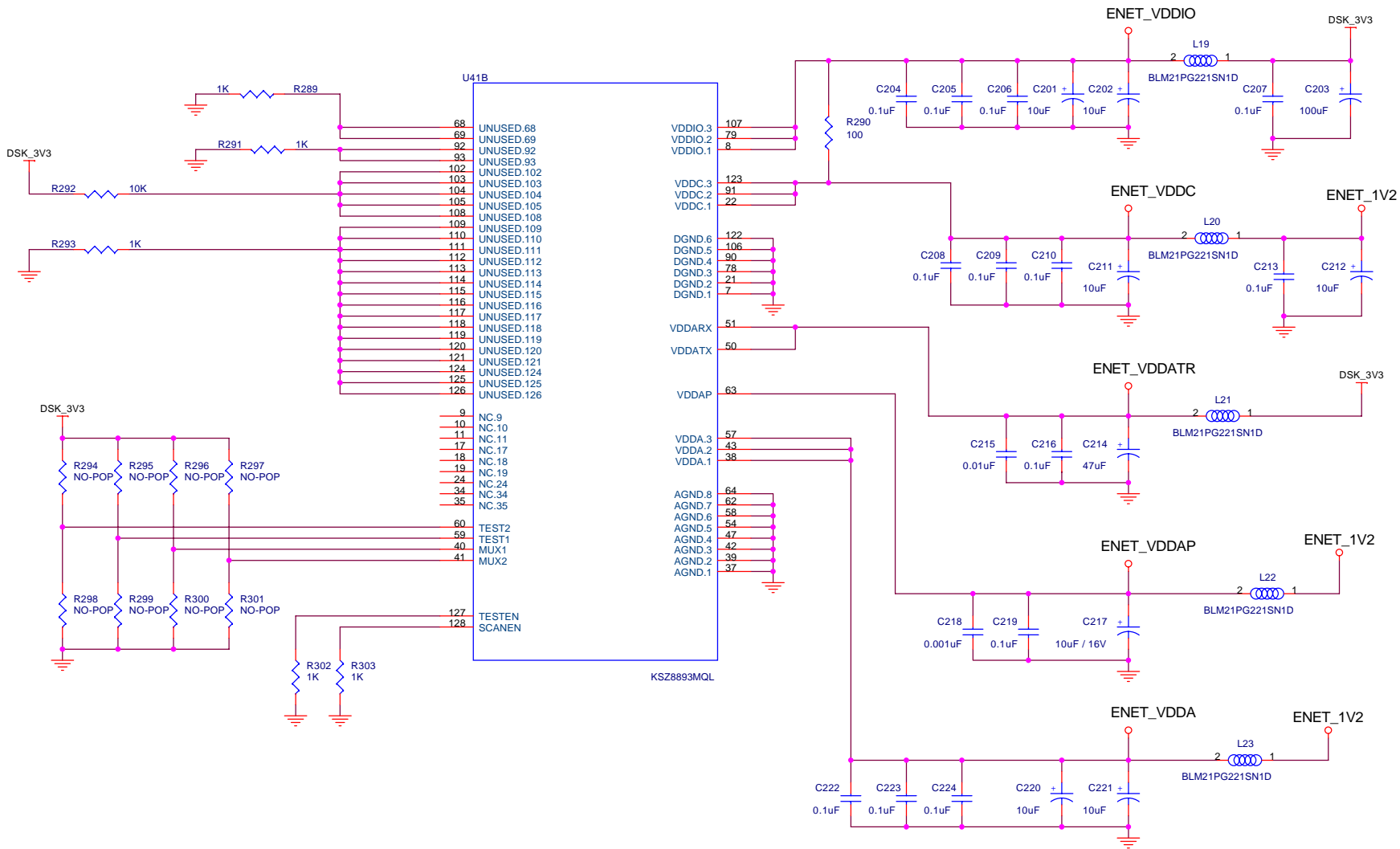
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Title: TMS320DA830 DSK			
Page Contents: AIC3106 AUDIO INTERFACE			
Size: B	DWG NO	511142-0001	Revision: B
Date:	Wednesday, February 18, 2009	Sheet 22 of	32



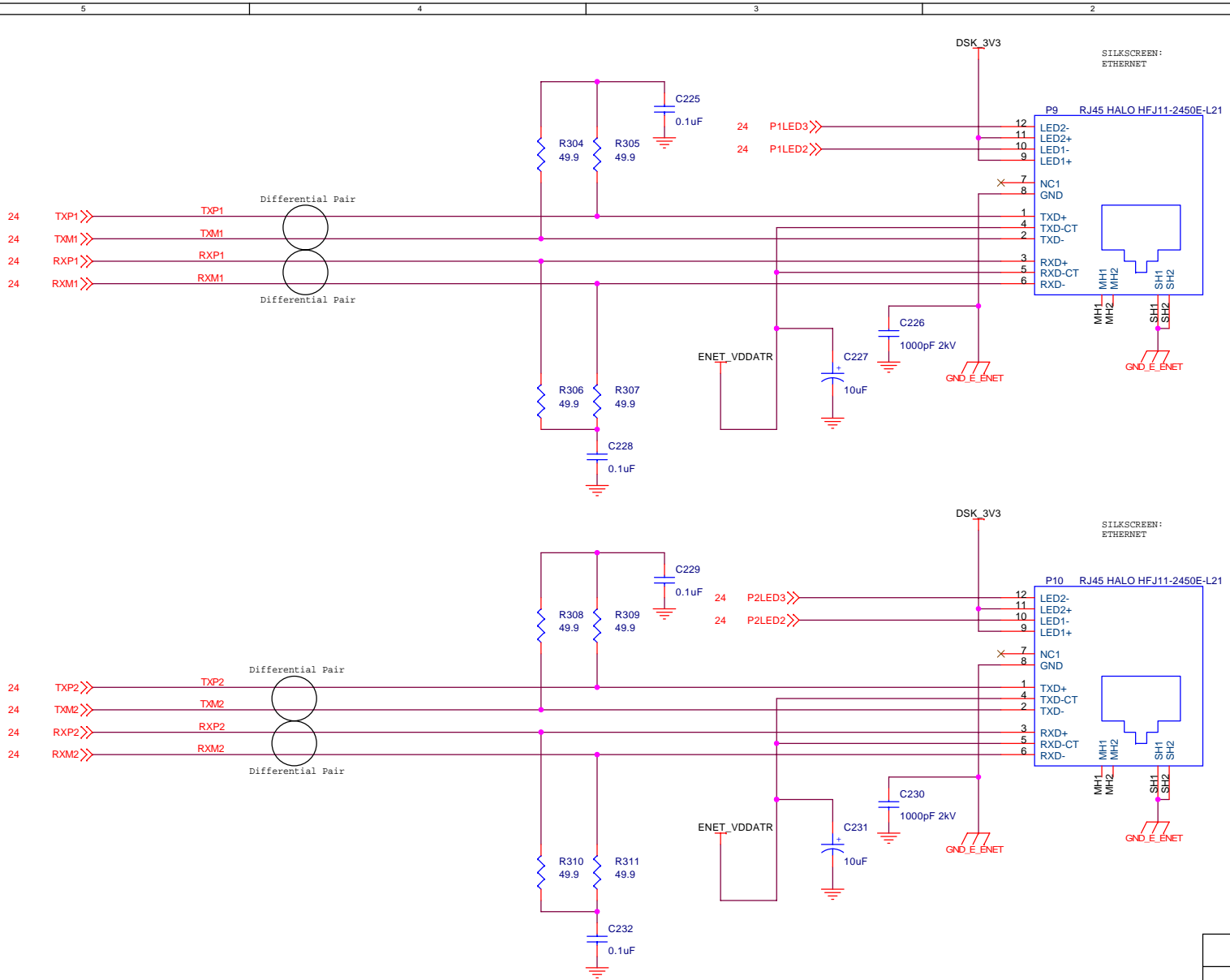
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Title: TMS320DA830 DSK			
Page Contents: AIC3106 VOIP INTERFACE			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 23 of	32



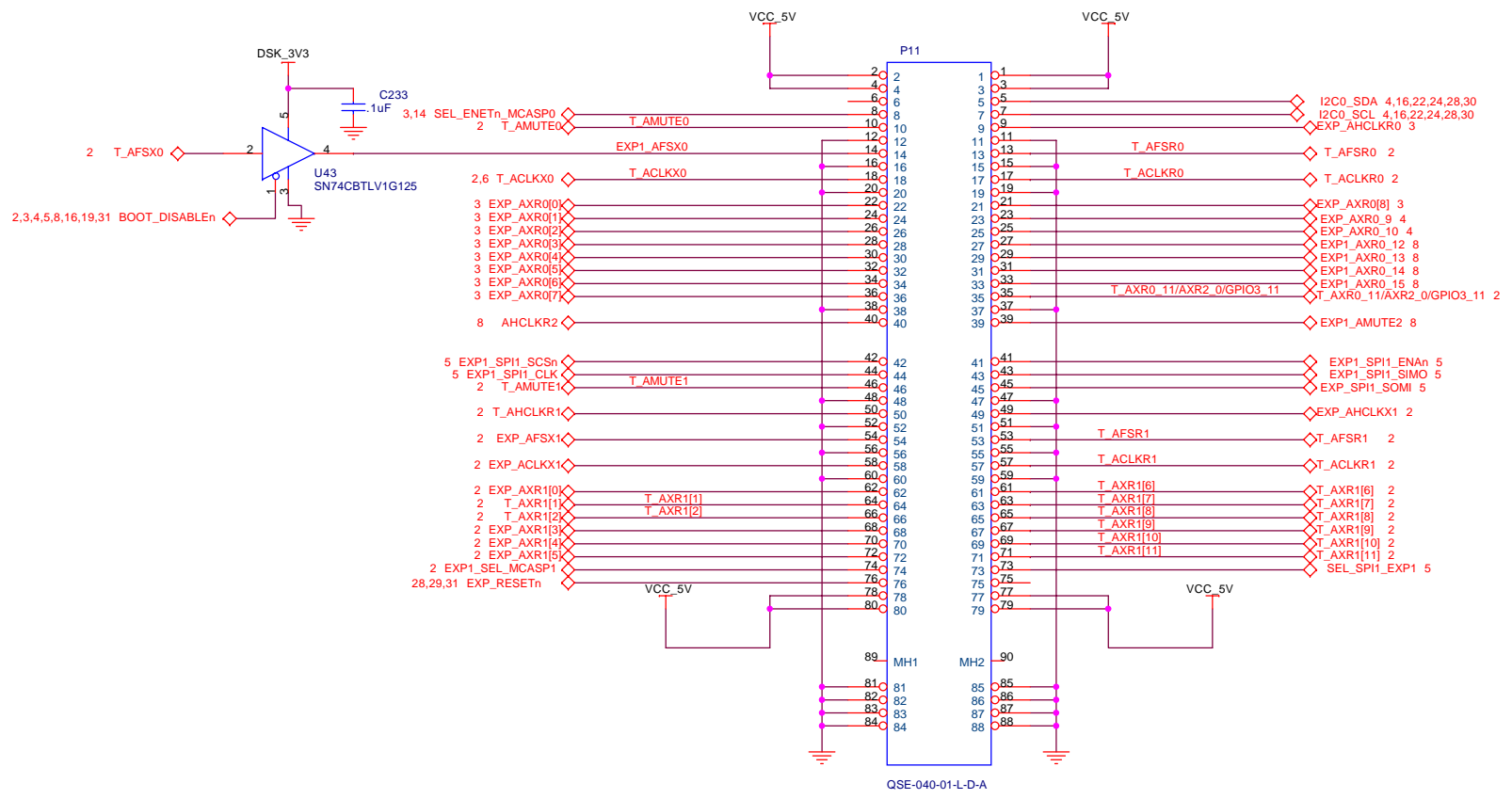
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: KSZ8893MQL ETHERNET/PHY/SWITCH			
Size: B	DWG NO	511142-0001	Revision: B
Date: Wednesday, February 18, 2009	Sheet 24 of 32		



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: KSZ8893MQL ETHERNET POWER			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 25 of	32



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: KSZ8893MQL ETHERNET PORTS			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 26 of	32

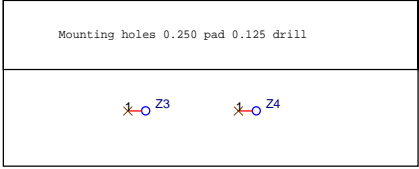
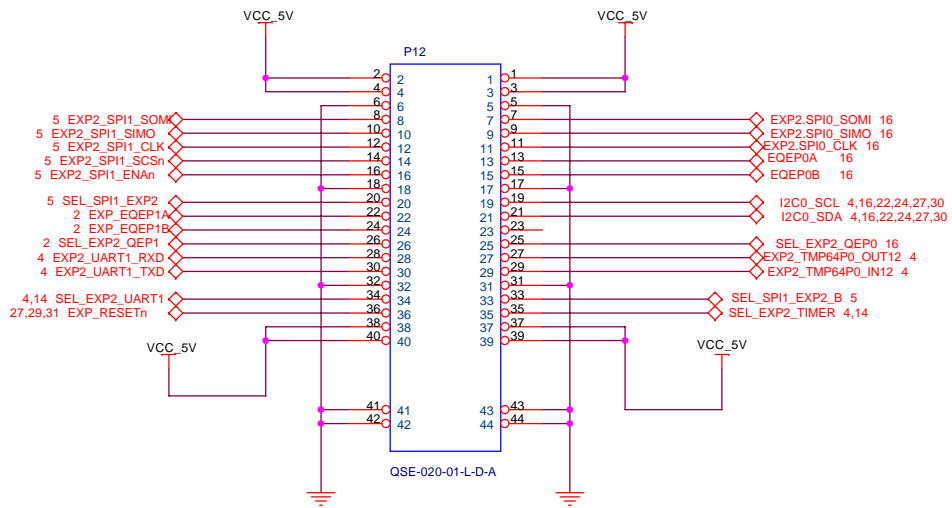


QSE-040-01-L-D-A

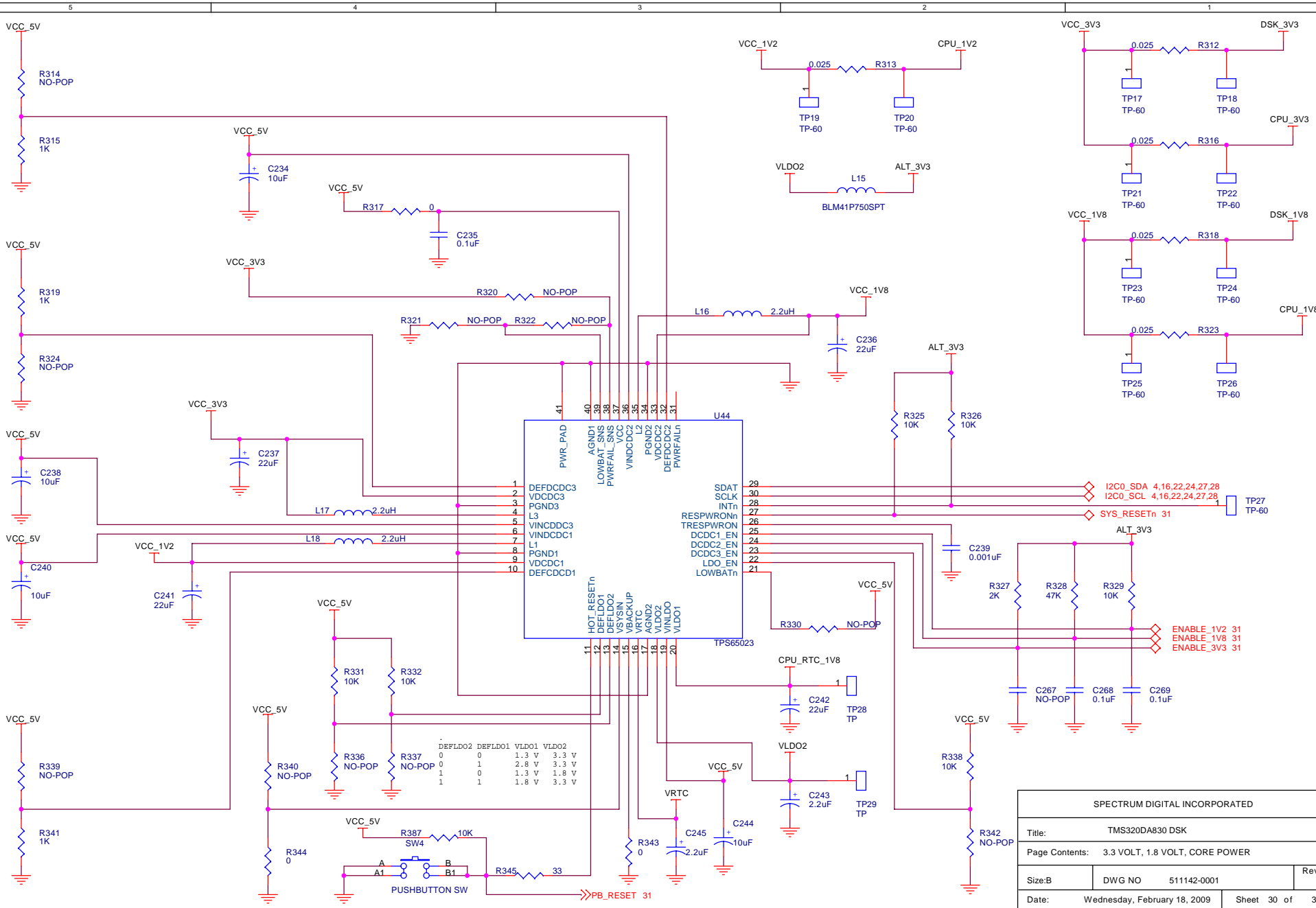
Mounting holes 0.250 pad 0.125 drill



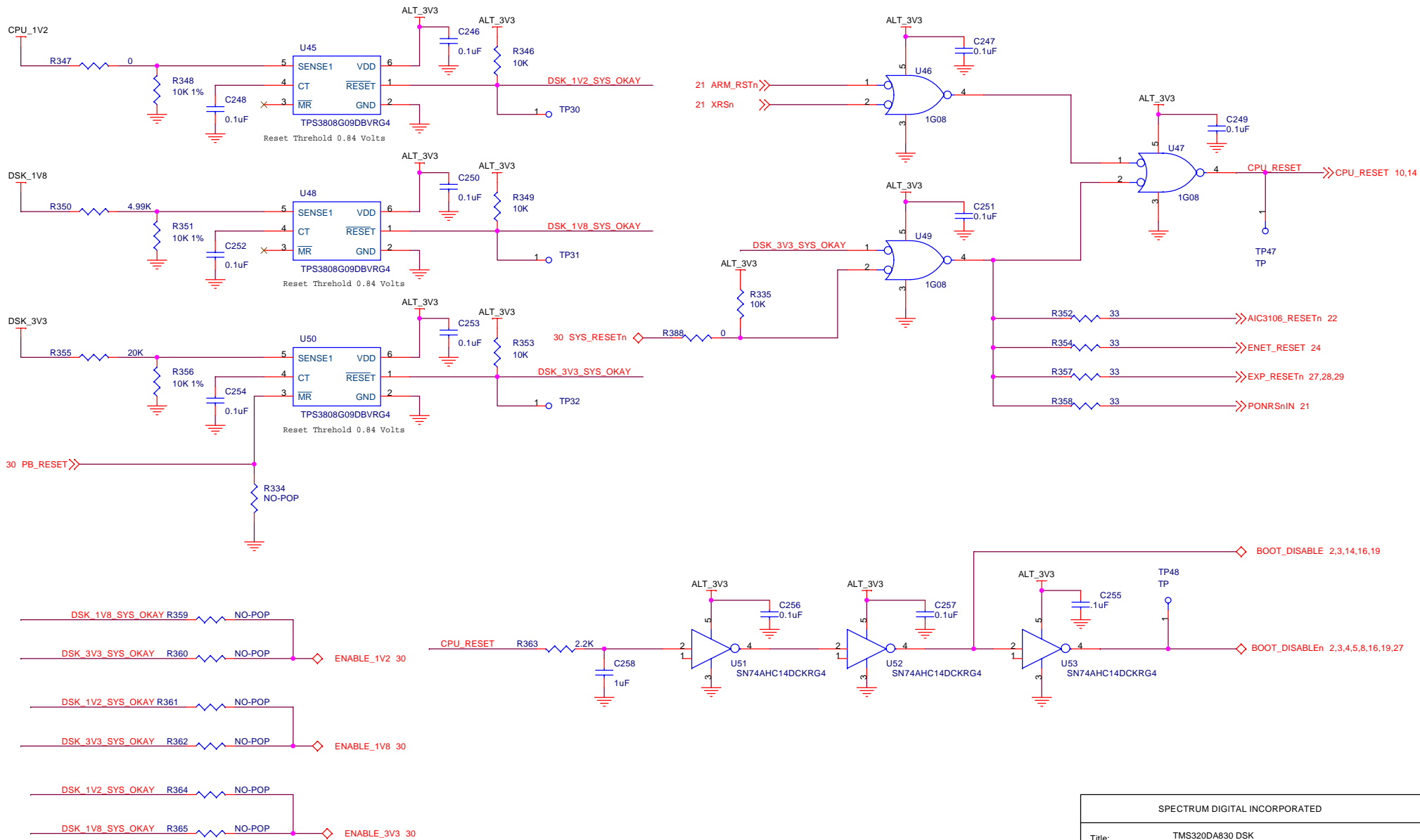
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Title: TMS320DA830 DSK			
Page Contents: AUDIO / EXPANSION COINNECTOR 1			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 27 of	32



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: EXPANSION 2			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Wednesday, February 18, 2009	Sheet 28 of	32

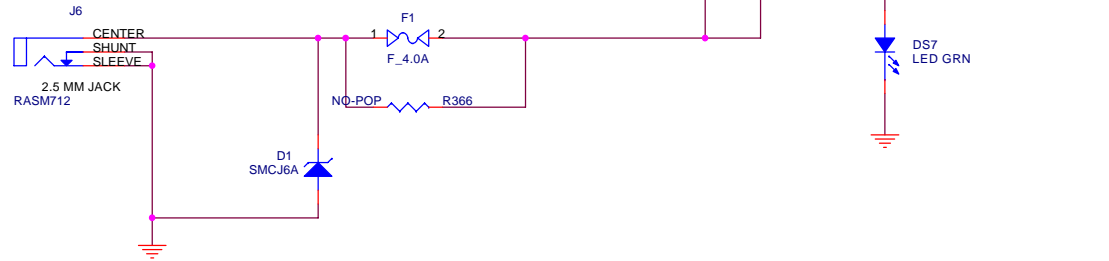


SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: 3.3 VOLT, 1.8 VOLT, CORE POWER			
Size: B	DWG NO	511142-0001	Revision: B
Date:	Wednesday, February 18, 2009		Sheet 30 of 32

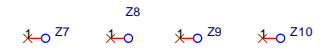


SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: POWER IN			
Size: B	DWG NO	511142-0001	Revision: B
Date:	Wednesday, February 18, 2009	Sheet 31 of	32

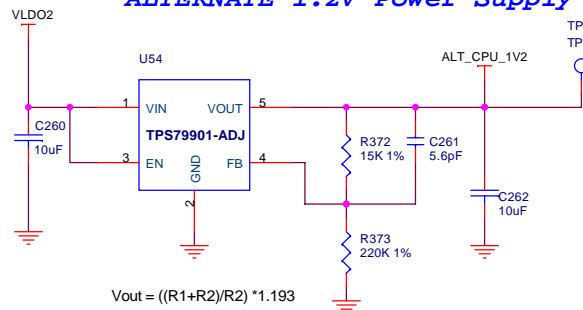
SILKSCREEN:
5V IN



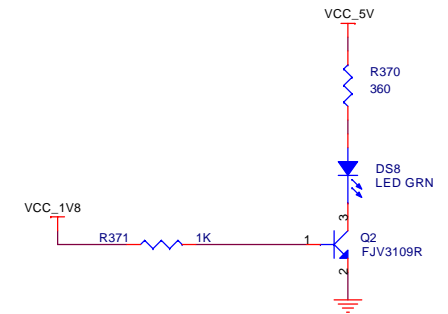
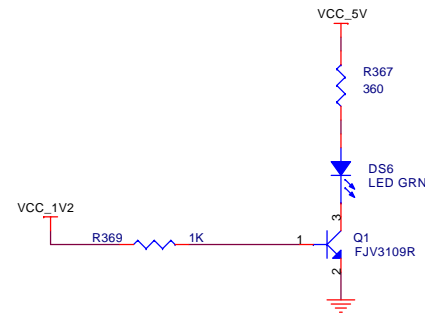
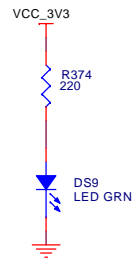
Mounting holes 0.250 pad 0.125 drill



ALTERNATE 1.2V Power Supply



$$V_{out} = ((R1+R2)/R2) * 1.193$$



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: POWER IN			
Size: B	DWG NO: 511142-0001	Revision: B	
Date: Wednesday, February 18, 2009	Sheet 32 of 32		