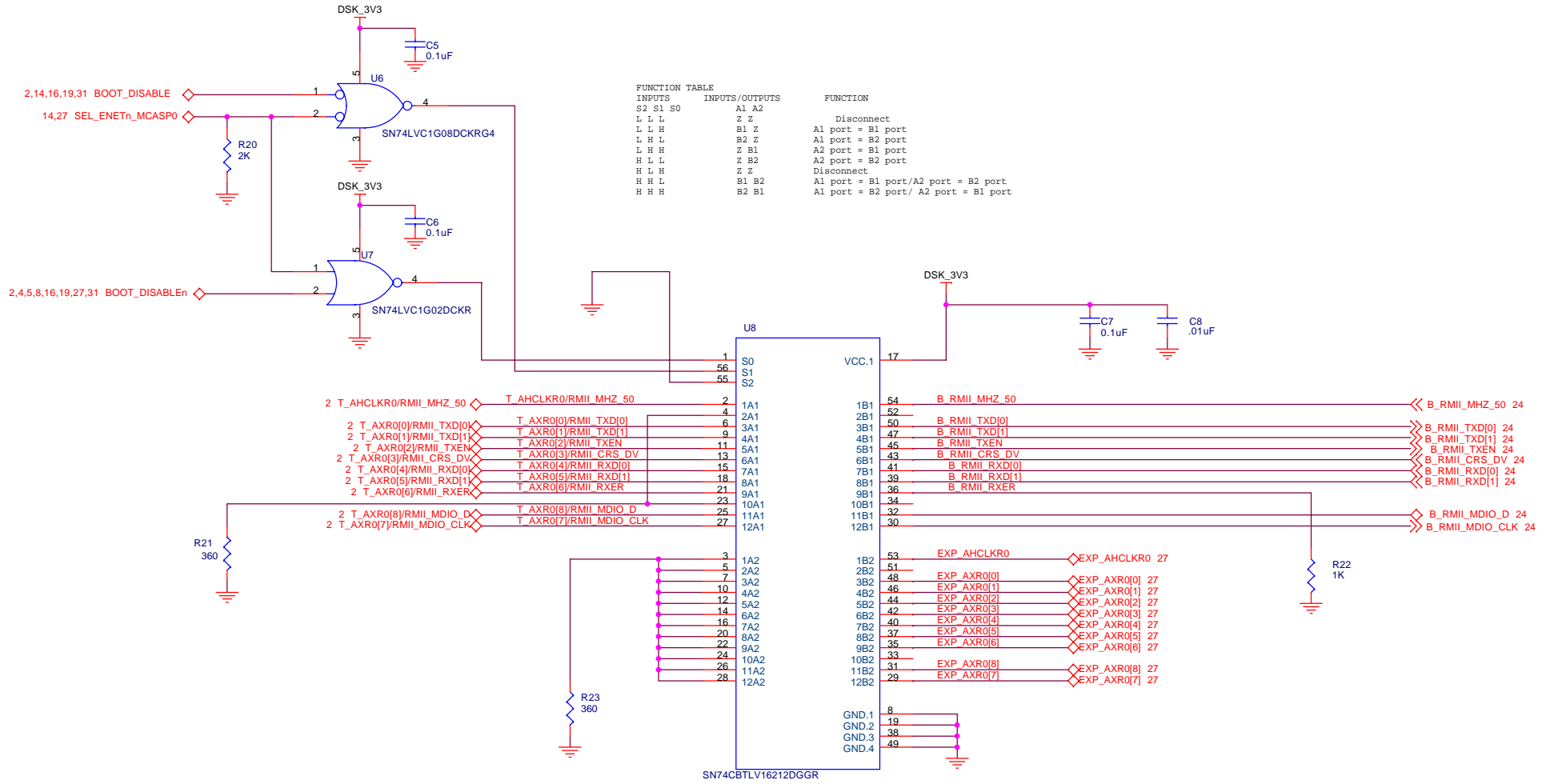


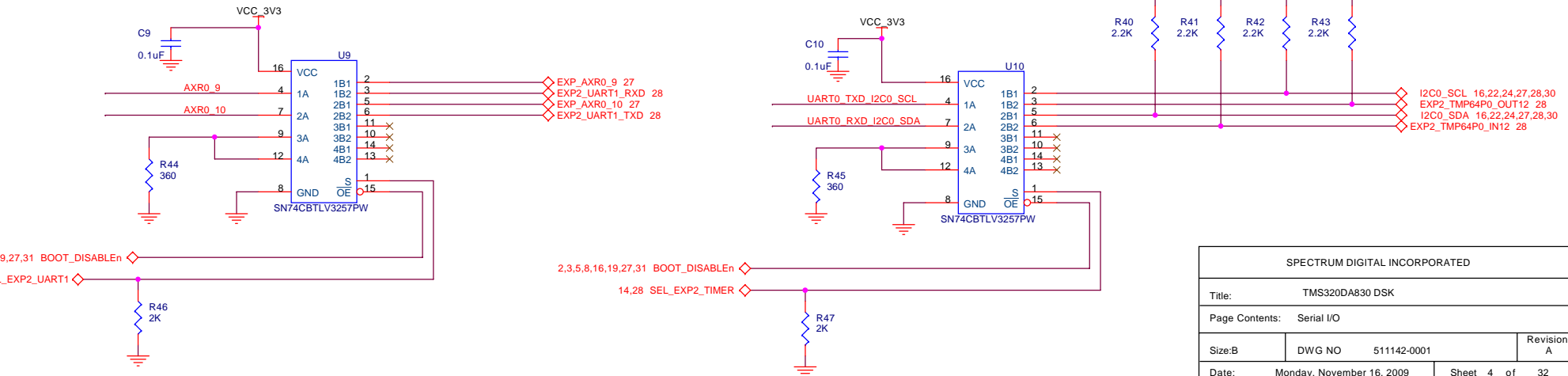
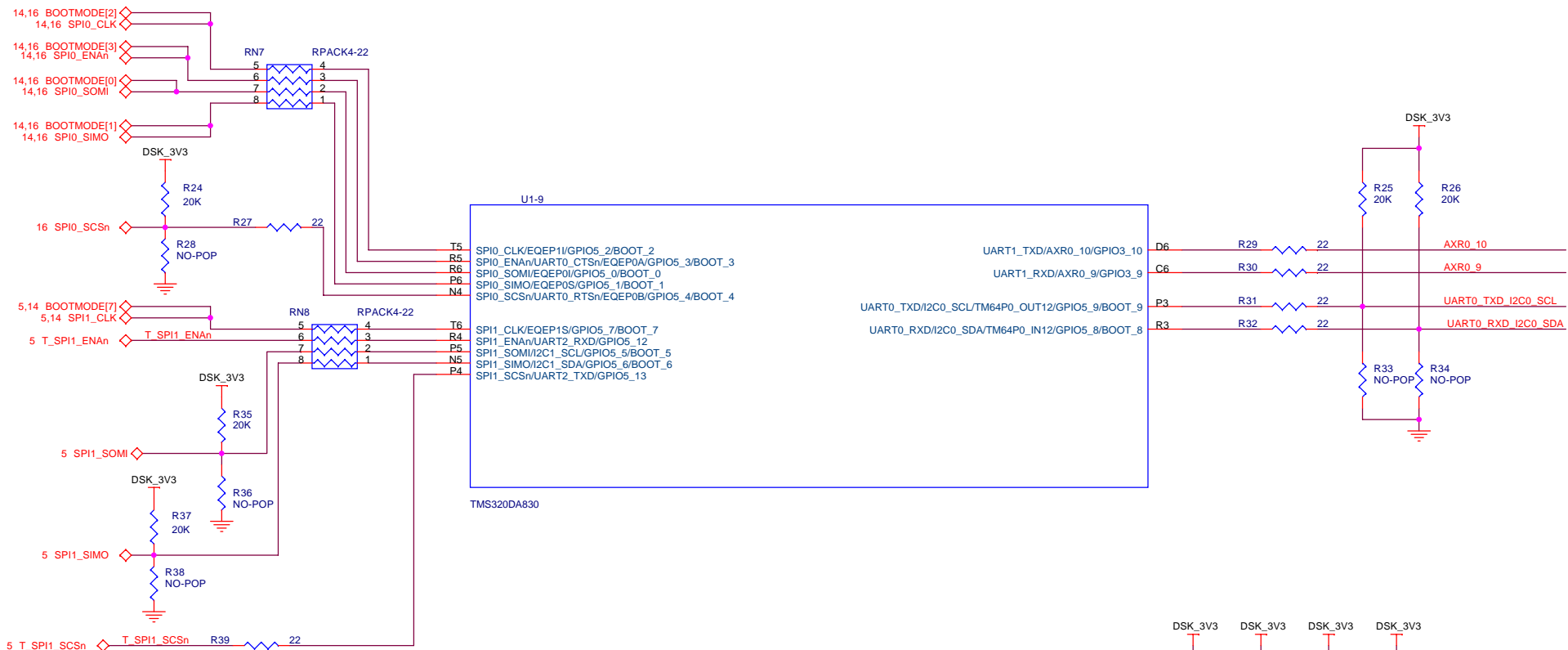
MCLK: AHCLKX1 (drive this clock into McASP)  
 BCLK: ACLKX1 (McASP will drive this into the AIC)  
 WCLK: AFSX1 (McASP will drive this into the AIC)  
 DIN: AXR1[5] (McASP)  
 DOUT: AXR1[0] (McASP)  
 McASP generates the Tx bit and frame clocks.  
 Configure McASP such that the Rx section operates off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

SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: McASP/Ethernet MAC			
Size: B	DWG NO: 511142-0001	Revision: A	
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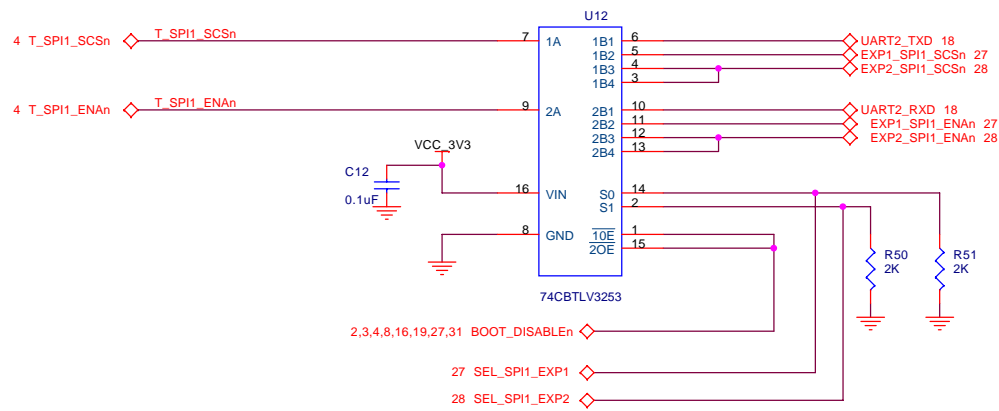
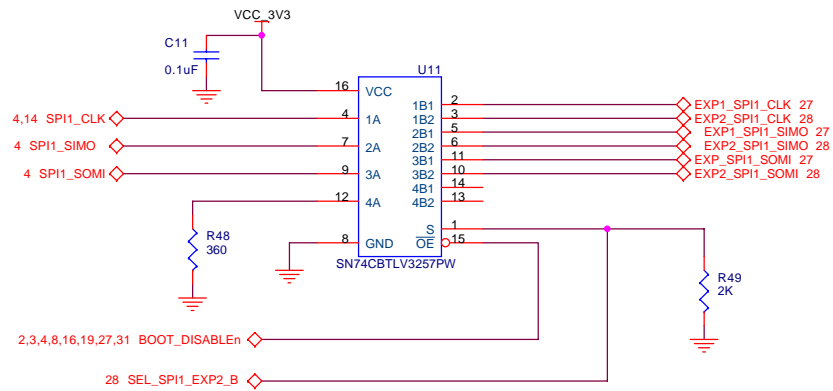


FUNCTION TABLE

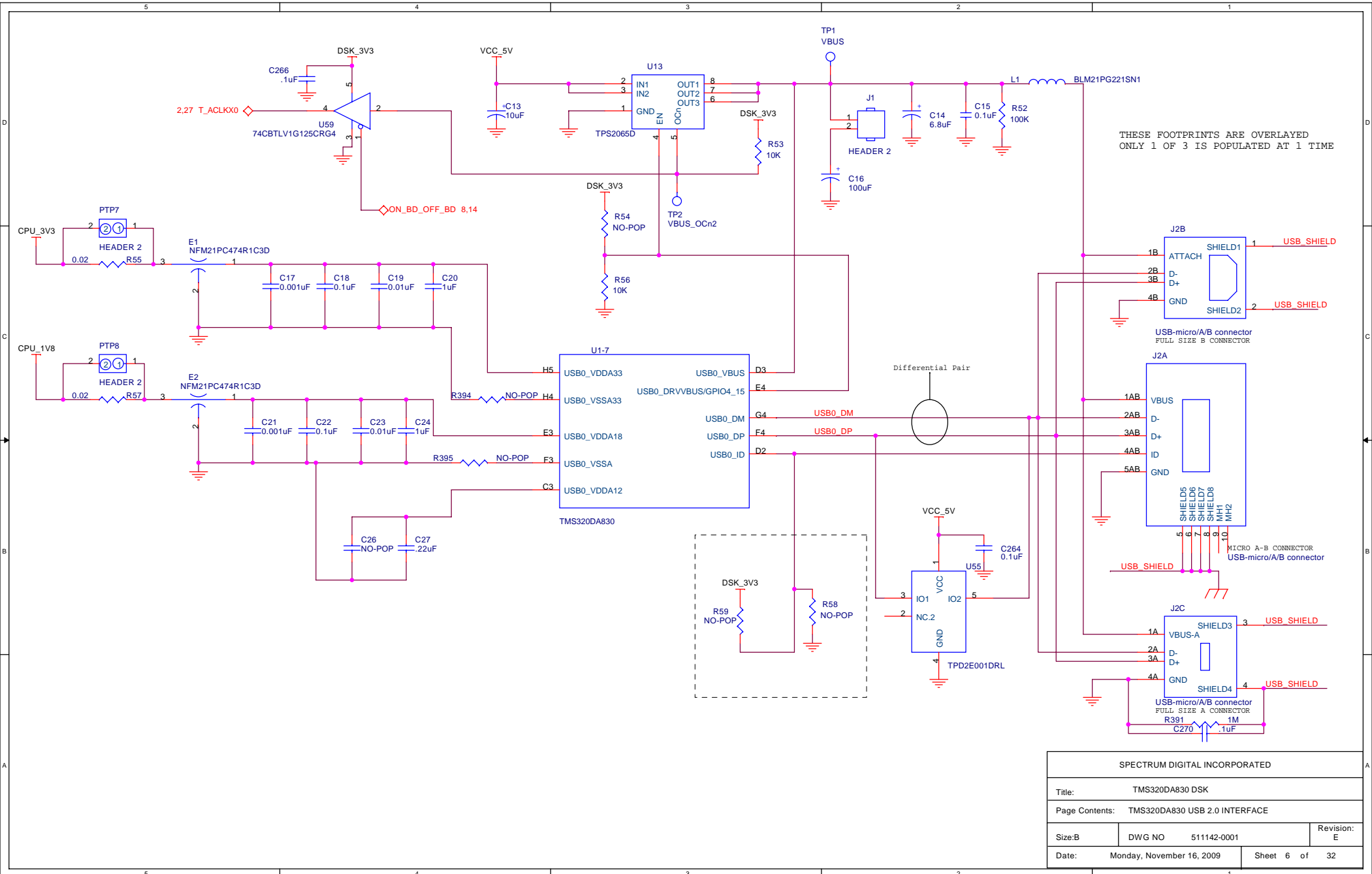
INPUTS	INPUTS/OUTPUTS	FUNCTION
S2 S1 S0	A1 A2	
L L L	Z Z	Disconnect
L L H	B1 Z	A1 port = B1 port
L H L	B2 Z	A1 port = B2 port
L H H	Z B1	A2 port = B1 port
H L L	Z B2	A2 port = B2 port
H L H	Z Z	Disconnect
H H L	B1 B2	A1 port = B1 port/A2 port = B2 port
H H H	B2 B1	A1 port = B2 port/ A2 port = B1 port



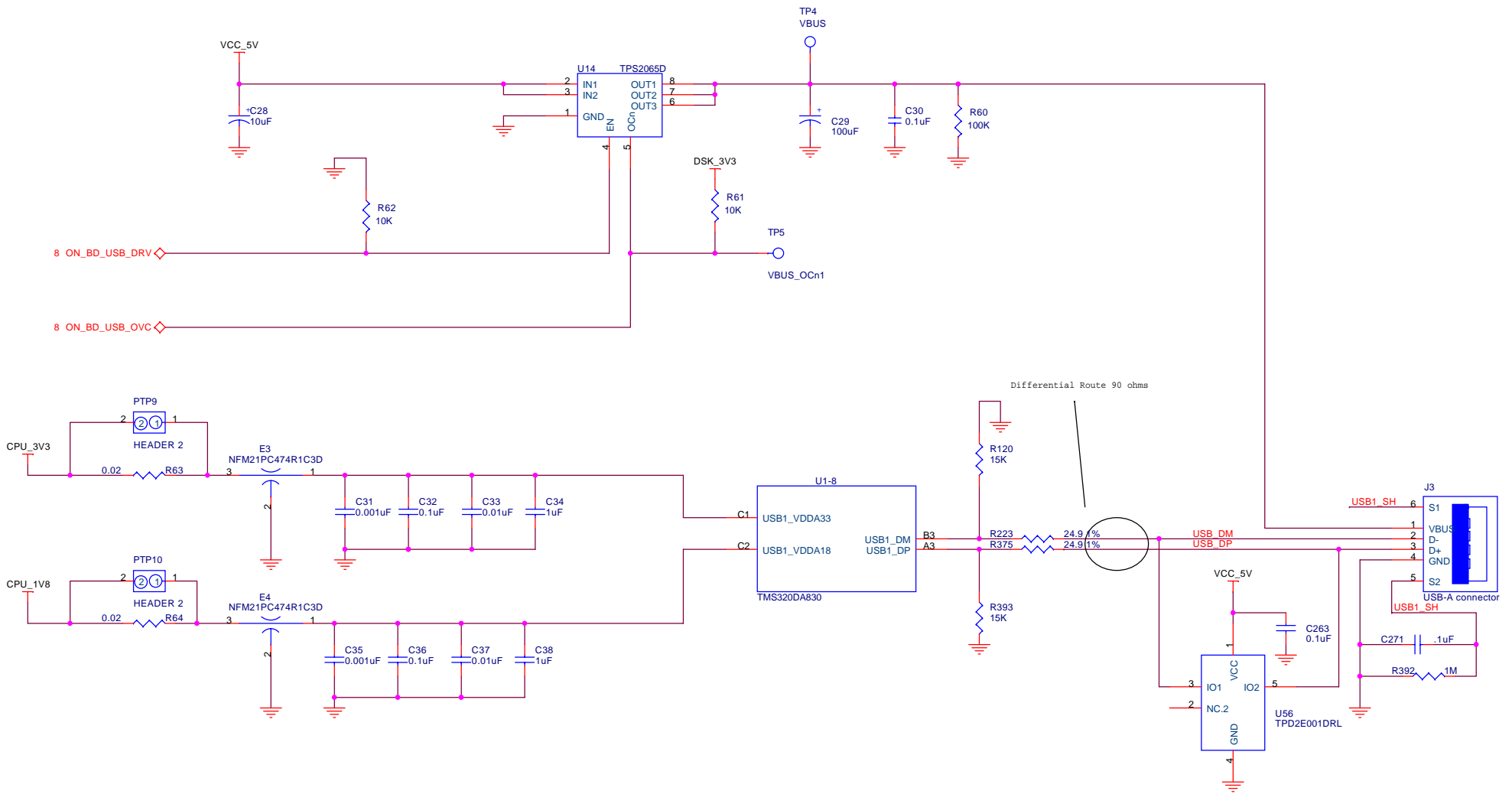
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: Serial I/O			
Size: B	DWG NO	511142-0001	Revision: A
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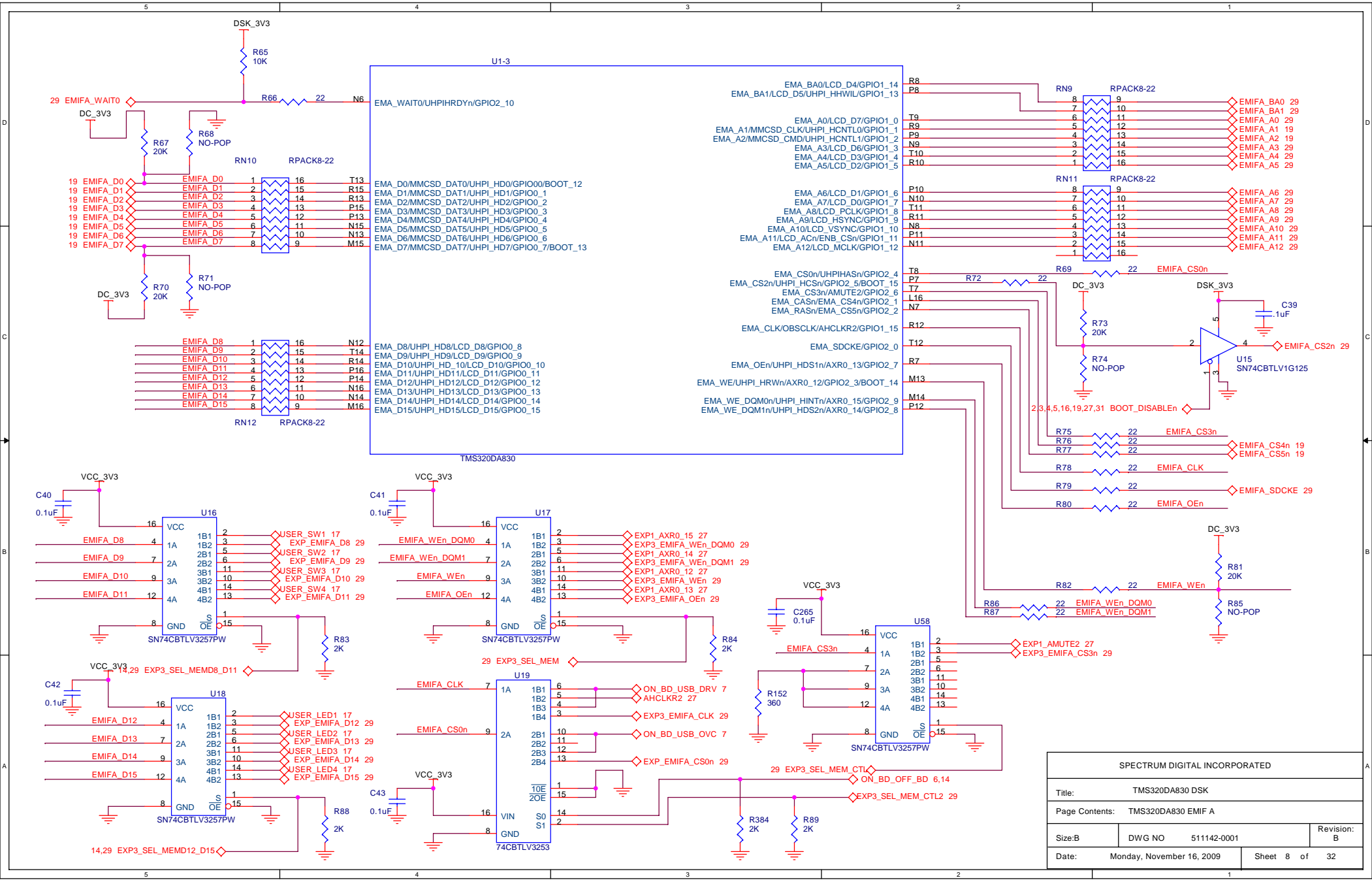
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Title: TMS320DA830 DSK			
Page Contents: SPI MUXING			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Monday, November 16, 2009	Sheet 5 of	32



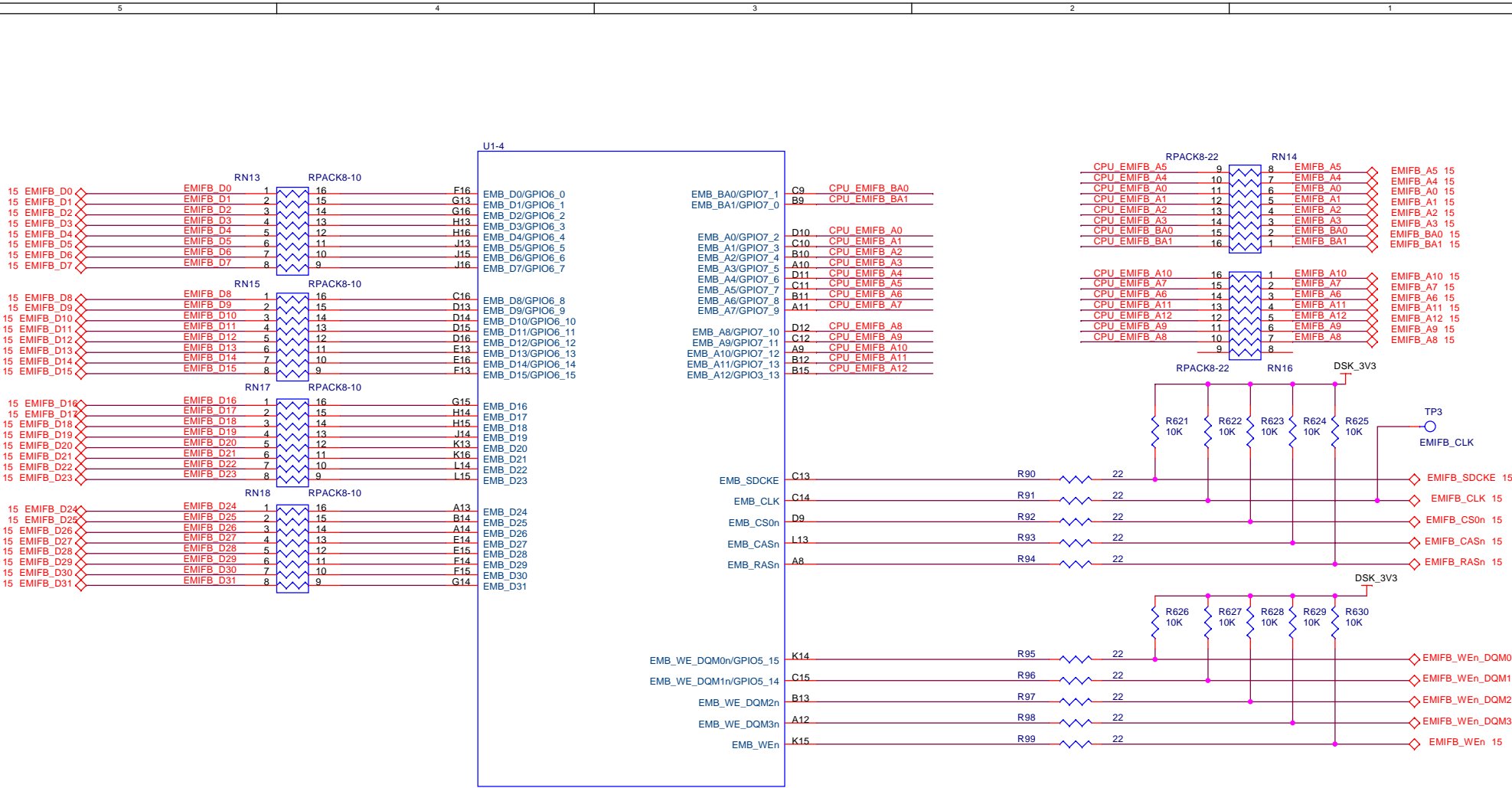
SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: TMS320DA830 USB 2.0 INTERFACE			
Size: B	DWG NO	511142-0001	Revision: E
Date:	Monday, November 16, 2009	Sheet 6 of	32



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: USB 1.0 HOST INTERFACE			
Size: B	DWG NO	511142-0001	Revision: E
Date:	Monday, November 16, 2009	Sheet 7	of 32

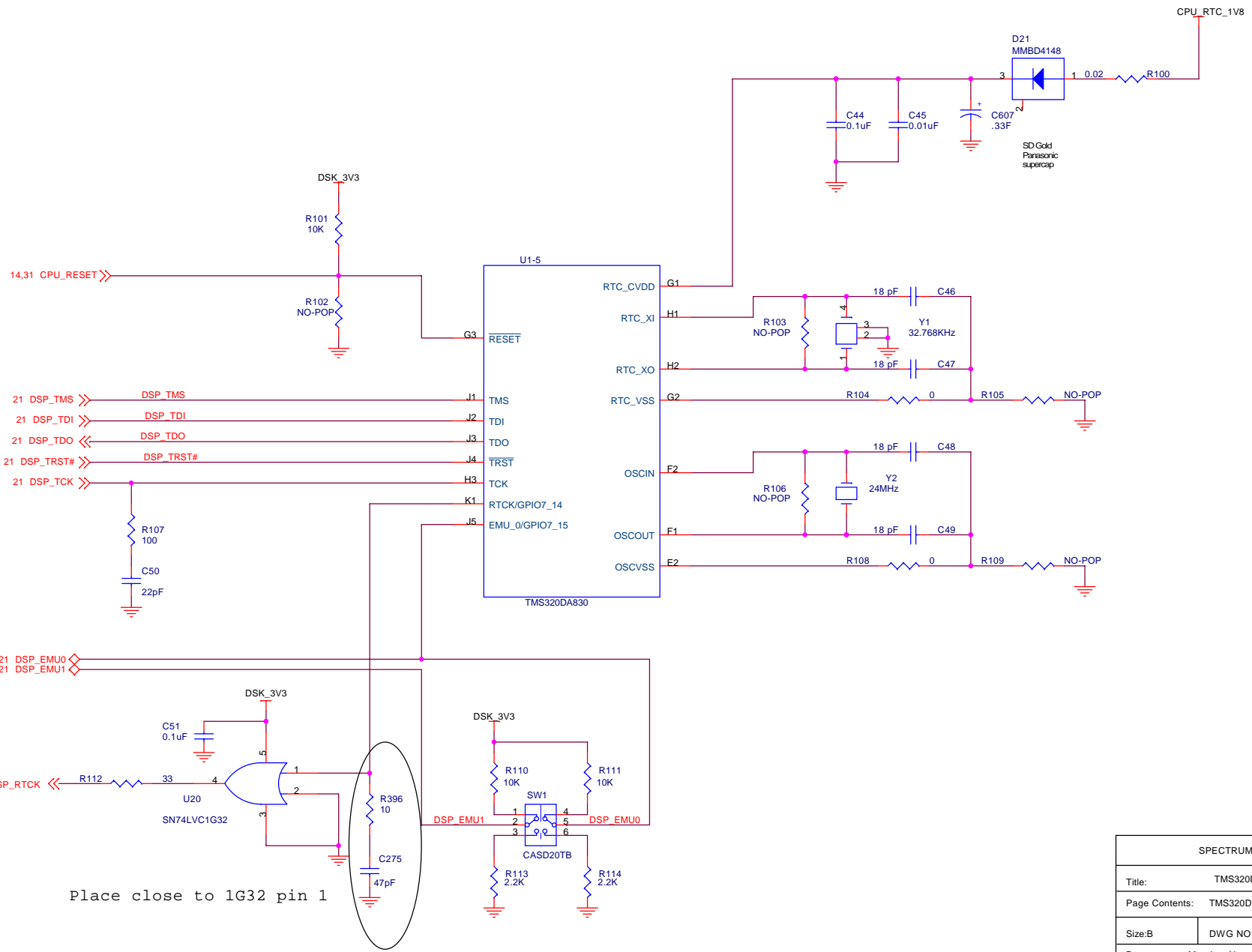


SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: TMS320DA830 EMIF A			
Size: B	DWG NO	511142-0001	Revision: B
Date:	Monday, November 16, 2009	Sheet 8 of	32



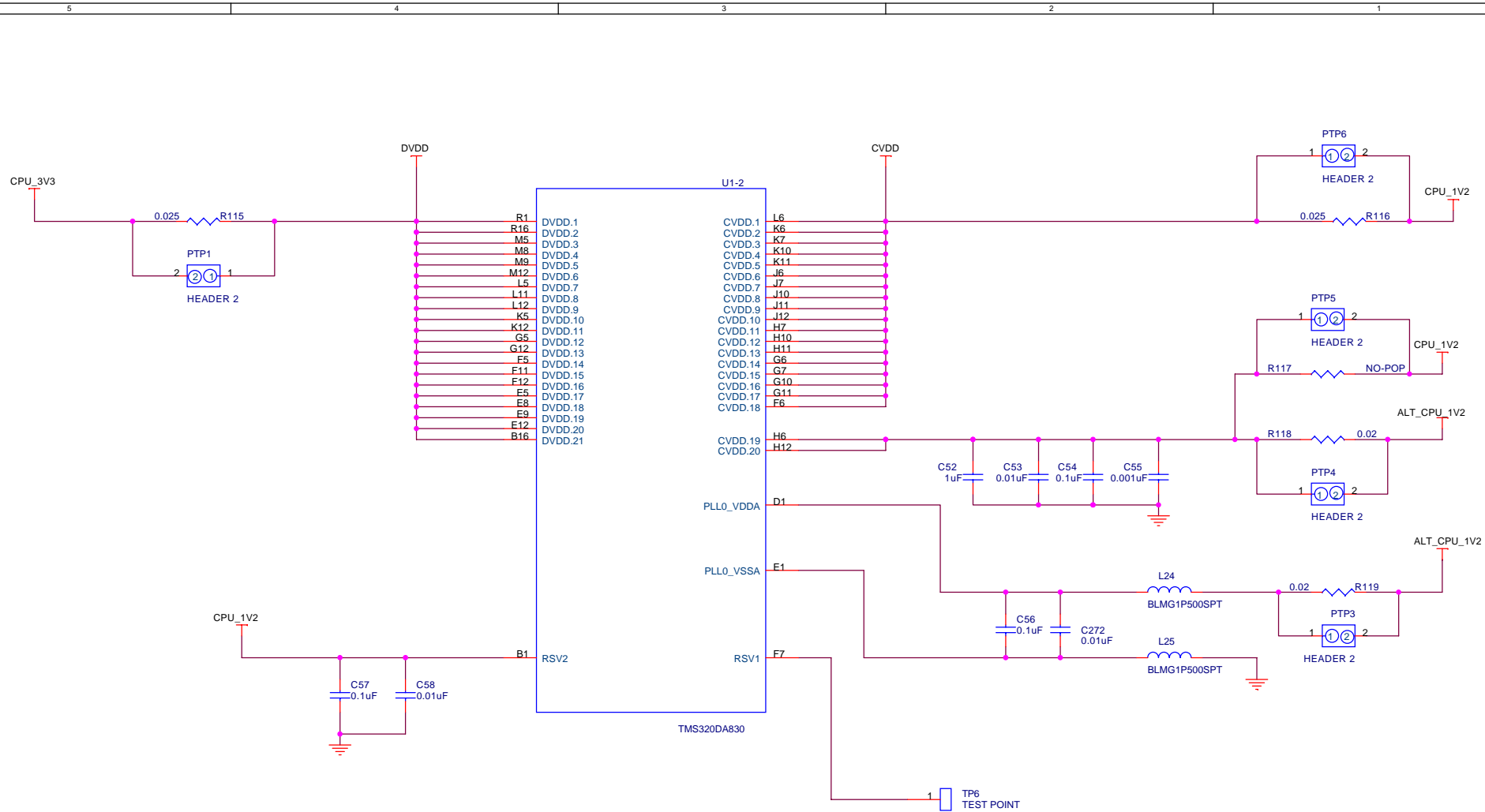
TMS320DA830

SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: TMS320DA830 EMIF-B			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Monday, November 16, 2009	Sheet 9 of	32

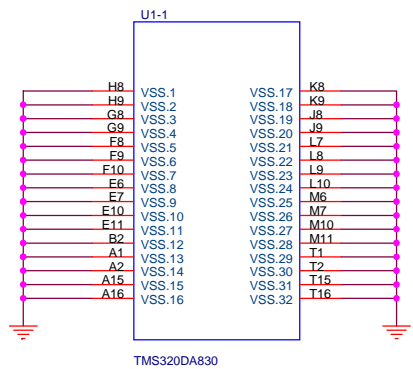


Place close to I/G32 pin 1

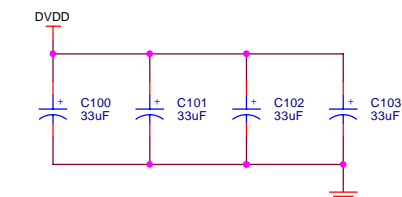
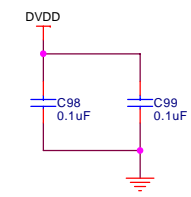
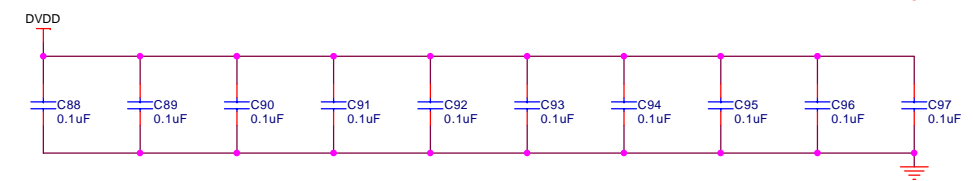
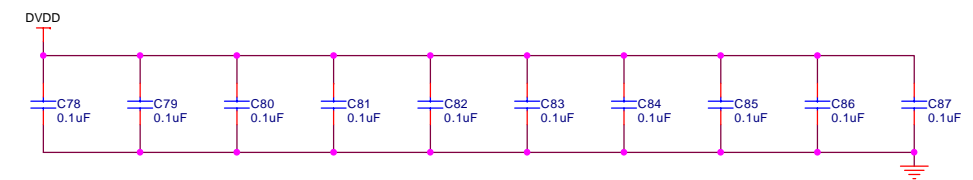
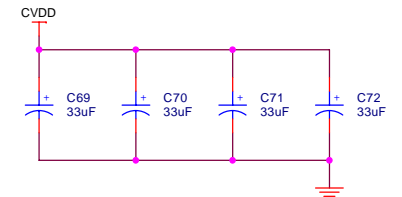
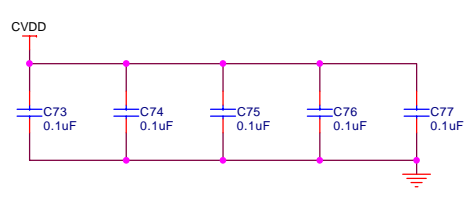
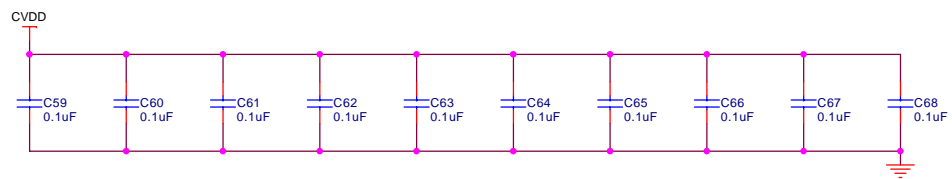
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Title: TMS320DA830 DSK			
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Size: B	DWG NO	511142-0001	Revision: F
Date:	Monday, November 16, 2009	Sheet	10 of 32



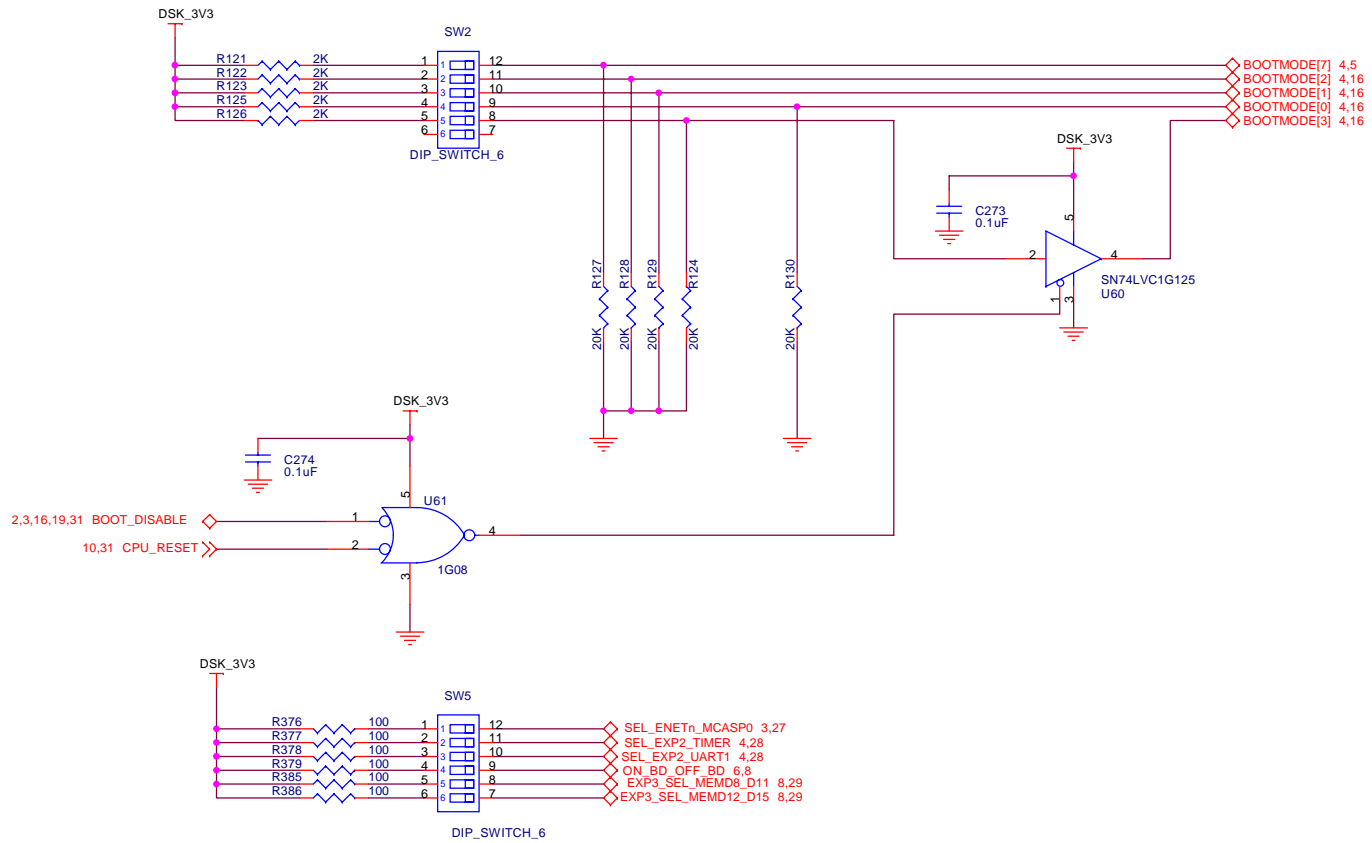
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Title: TMS320DA830 DSK			
Page Contents: TMS320DA830 POWER PINS			
Size: B	DWG NO	511142-0001	Revision: C
Date:	Monday, November 16, 2009	Sheet	11 of 32



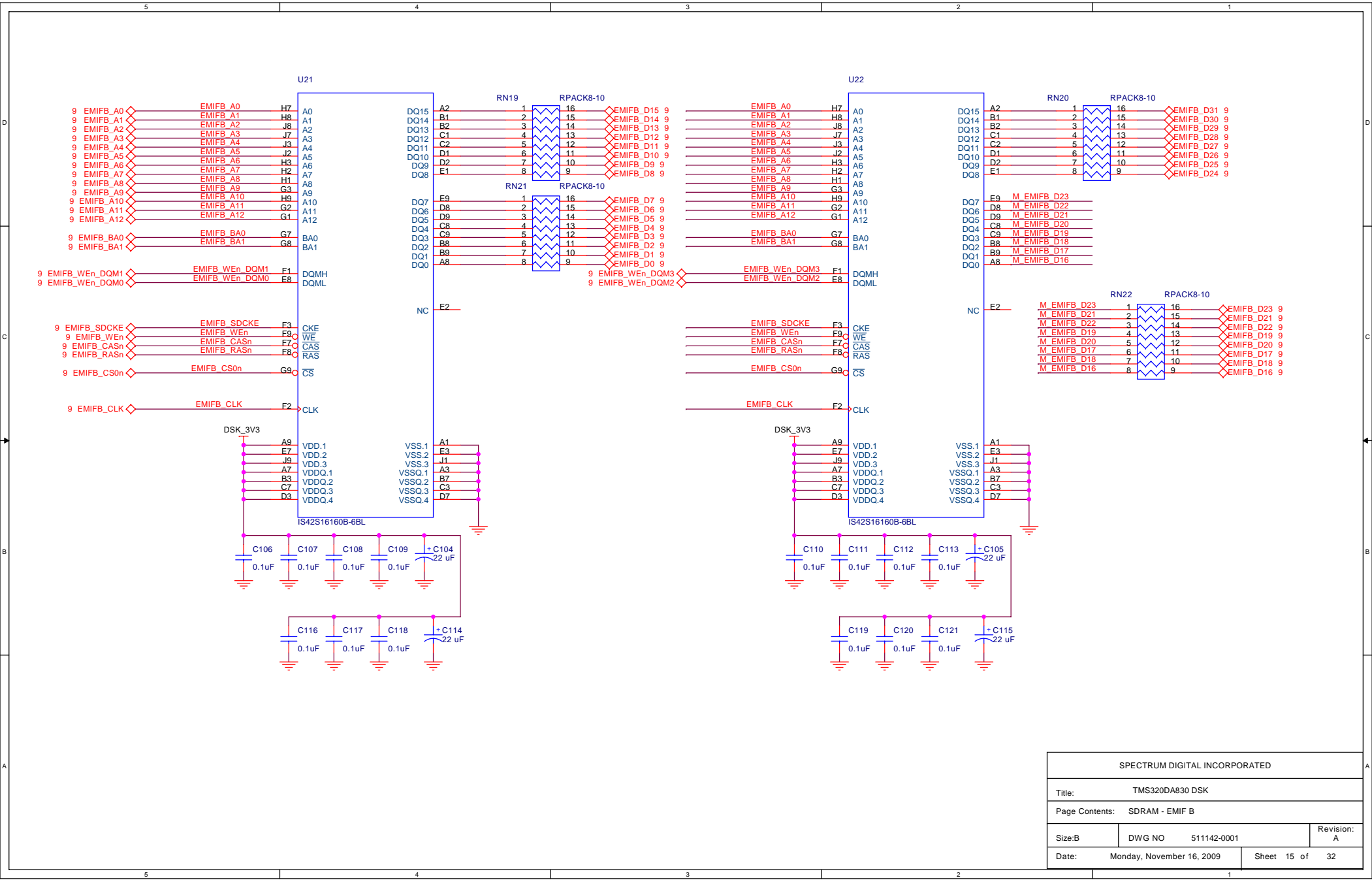
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Title: TMS320DA830 DSK			
Page Contents: TMS320DA830 GROUND PINS			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Monday, November 16, 2009	Sheet 12 of	32



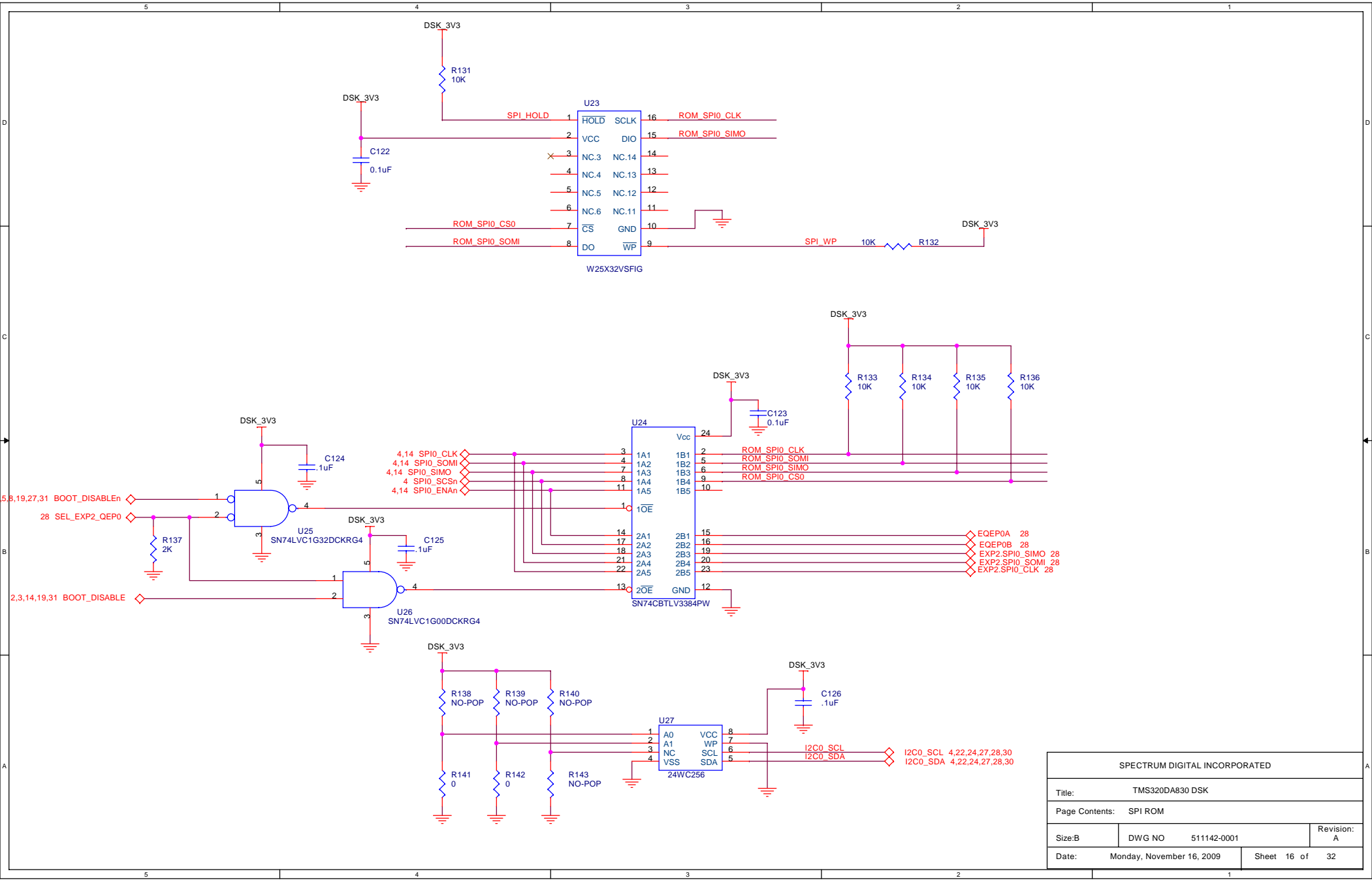
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Title: TMS320DA830 DSK			
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Size: B	DWG NO	511142-0001	Revision: A
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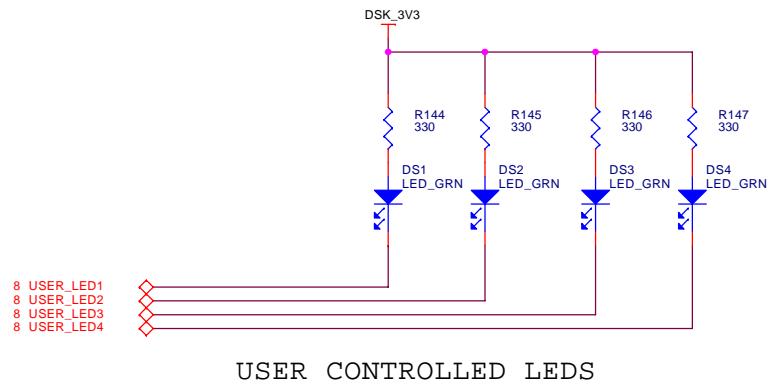
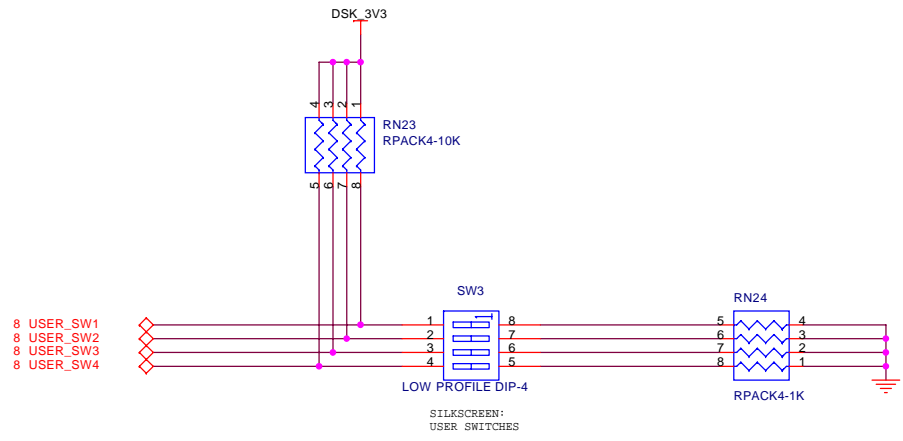
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Page Contents: BOOT MODES			
Size: B	DWG NO	511142-0001	Revision: C
Date:	Monday, November 16, 2009	Sheet 14 of	32



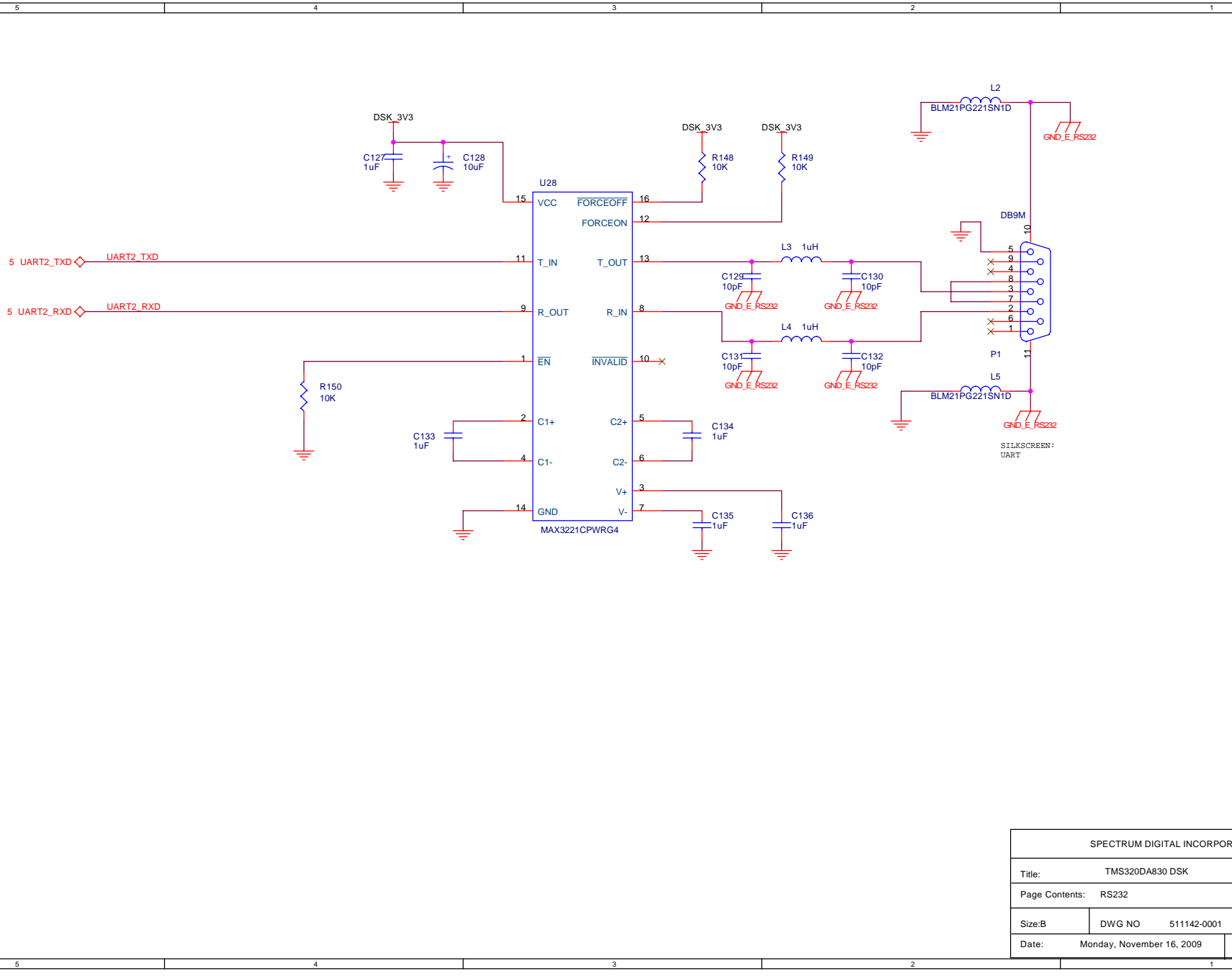
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Title: TMS320DA830 DSK			
Page Contents: SDRAM - EMIF B			
Size: B	DWG NO	511142-0001	Revision: A
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SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
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Size: B	DWG NO	511142-0001	Revision: A
Date:	Monday, November 16, 2009	Sheet 16 of	32

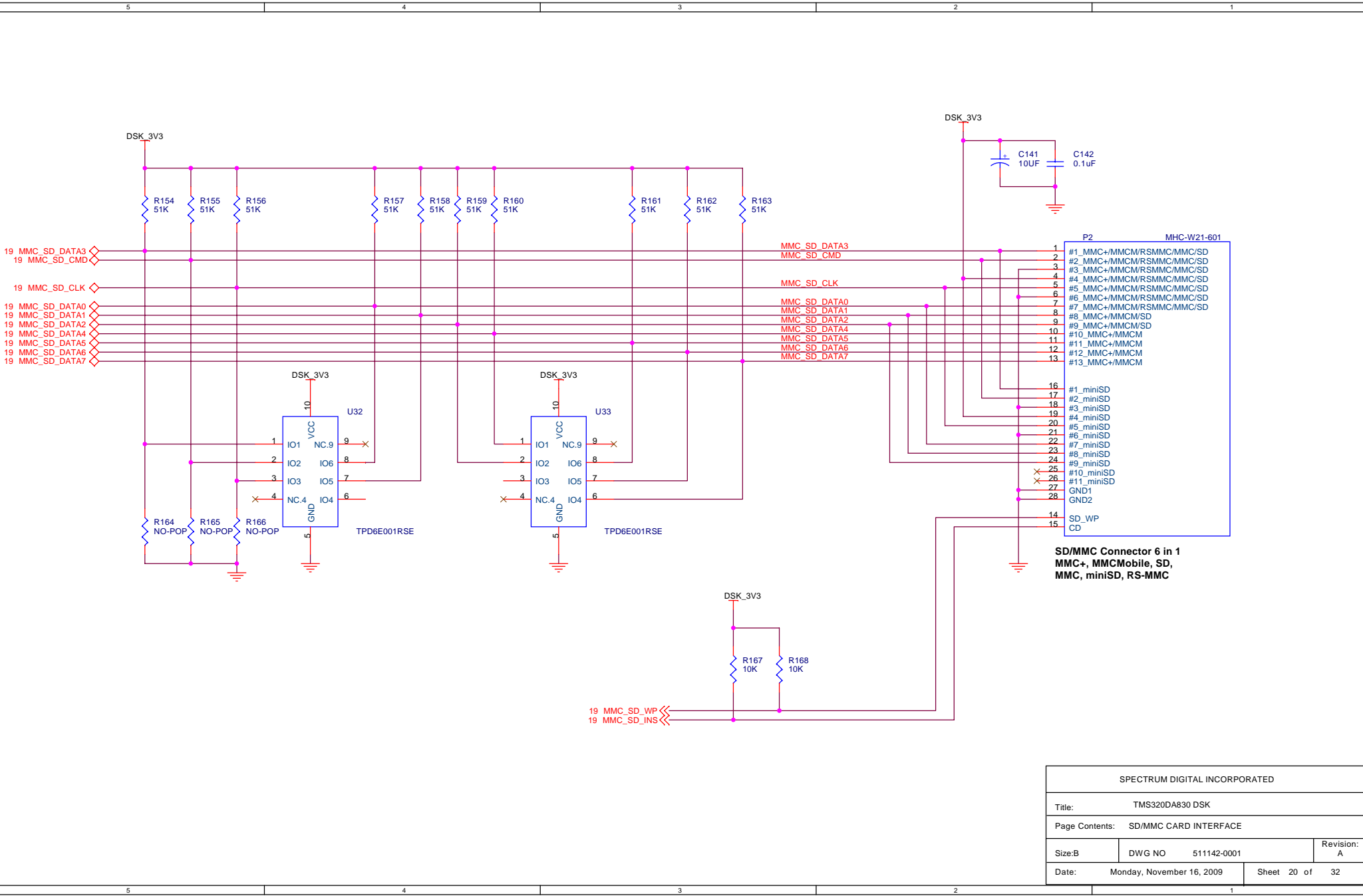


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Title: TMS320DA830 DSK			
Page Contents: USER SWITCHES LEDS			
Size: B	DWG NO	511142-0001	Revision: A
Date:	Monday, November 16, 2009	Sheet 17 of	32

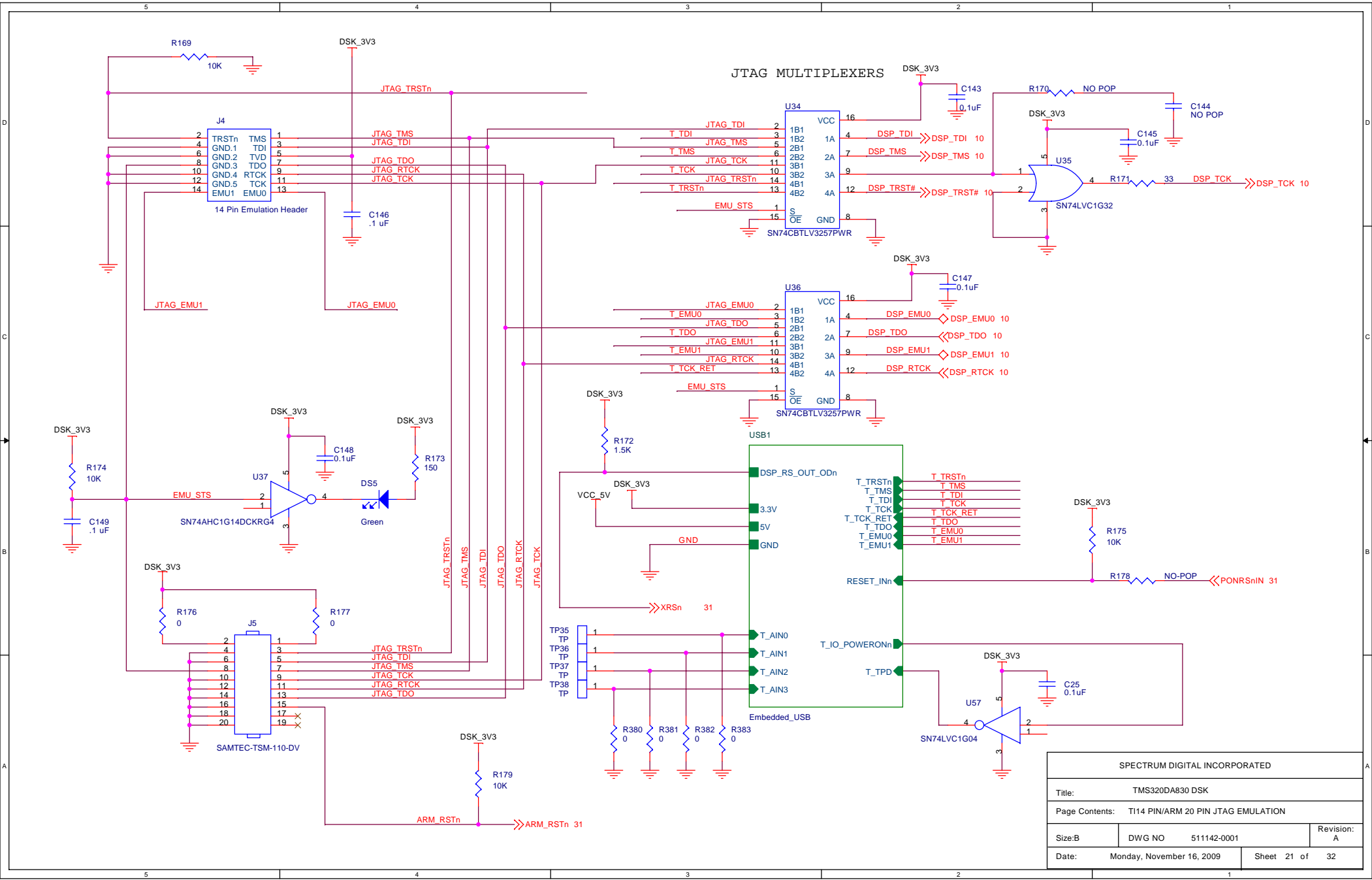


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Page Contents: RS232			
Size: B	DWG NO	511142-0001	Revision: A
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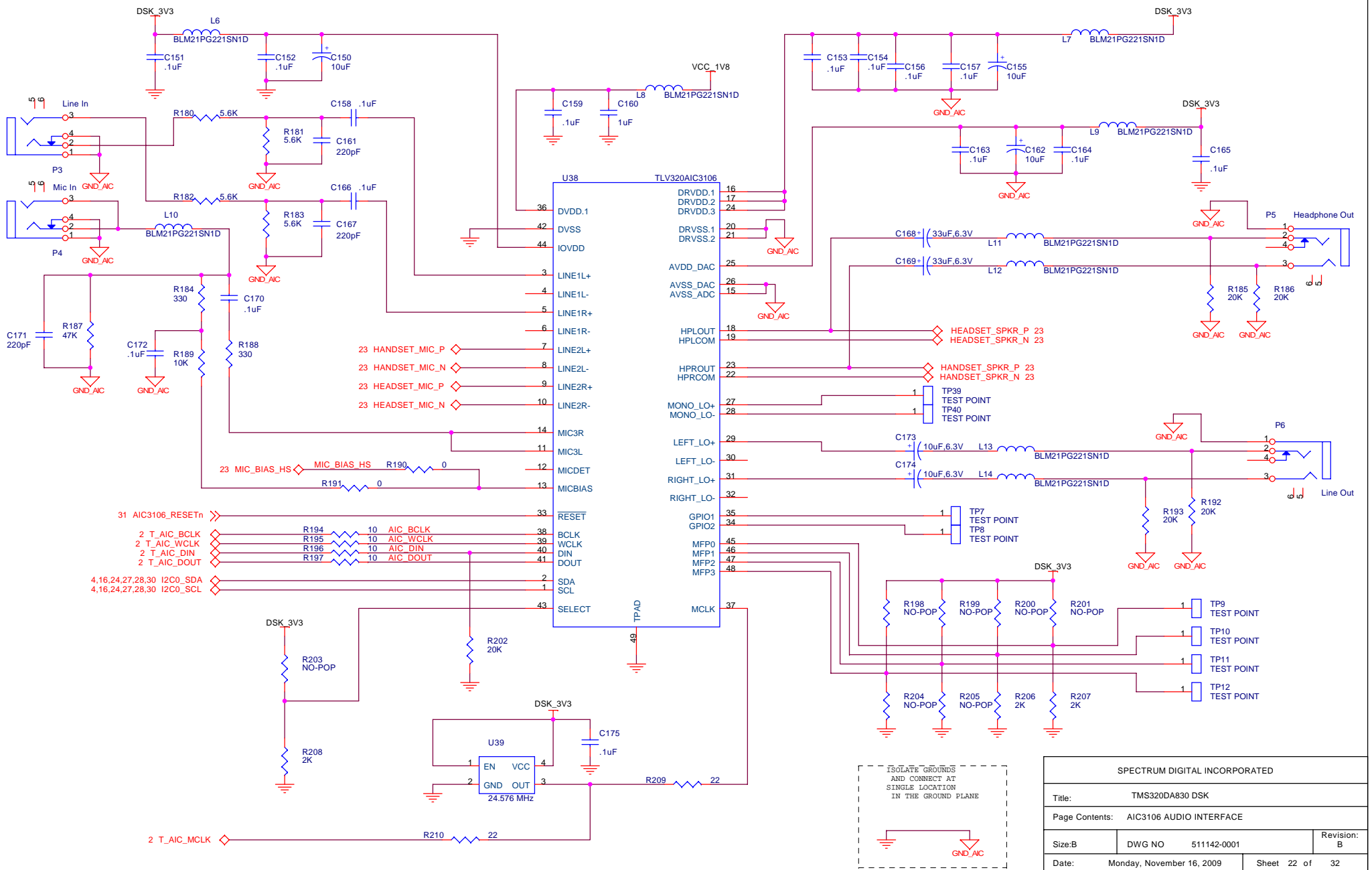




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Title: TMS320DA830 DSK			
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Size: B	DWG NO	511142-0001	Revision: A
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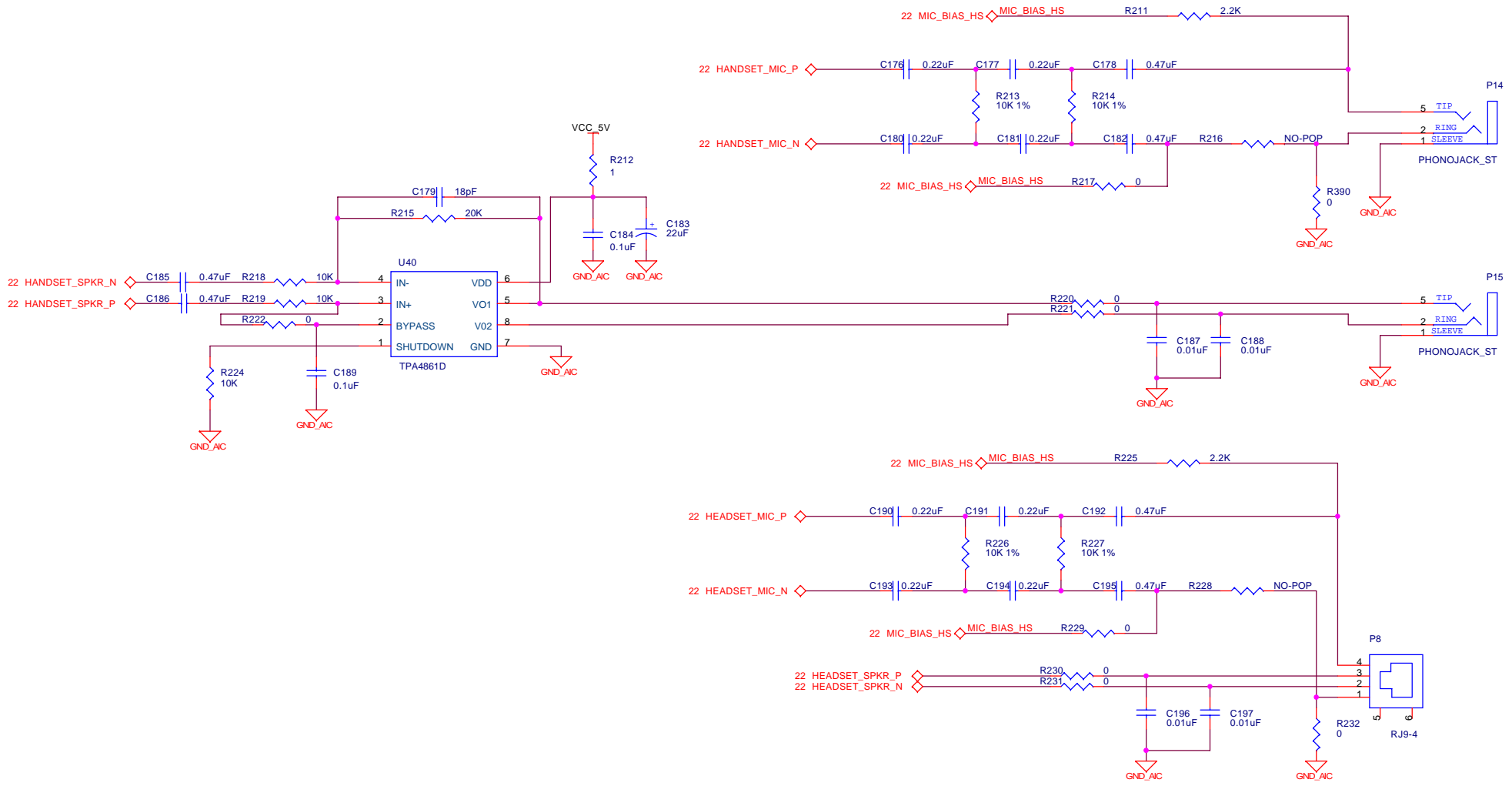


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Title: TMS320DA830 DSK			
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Size: B	DWG NO	511142-0001	Revision: A
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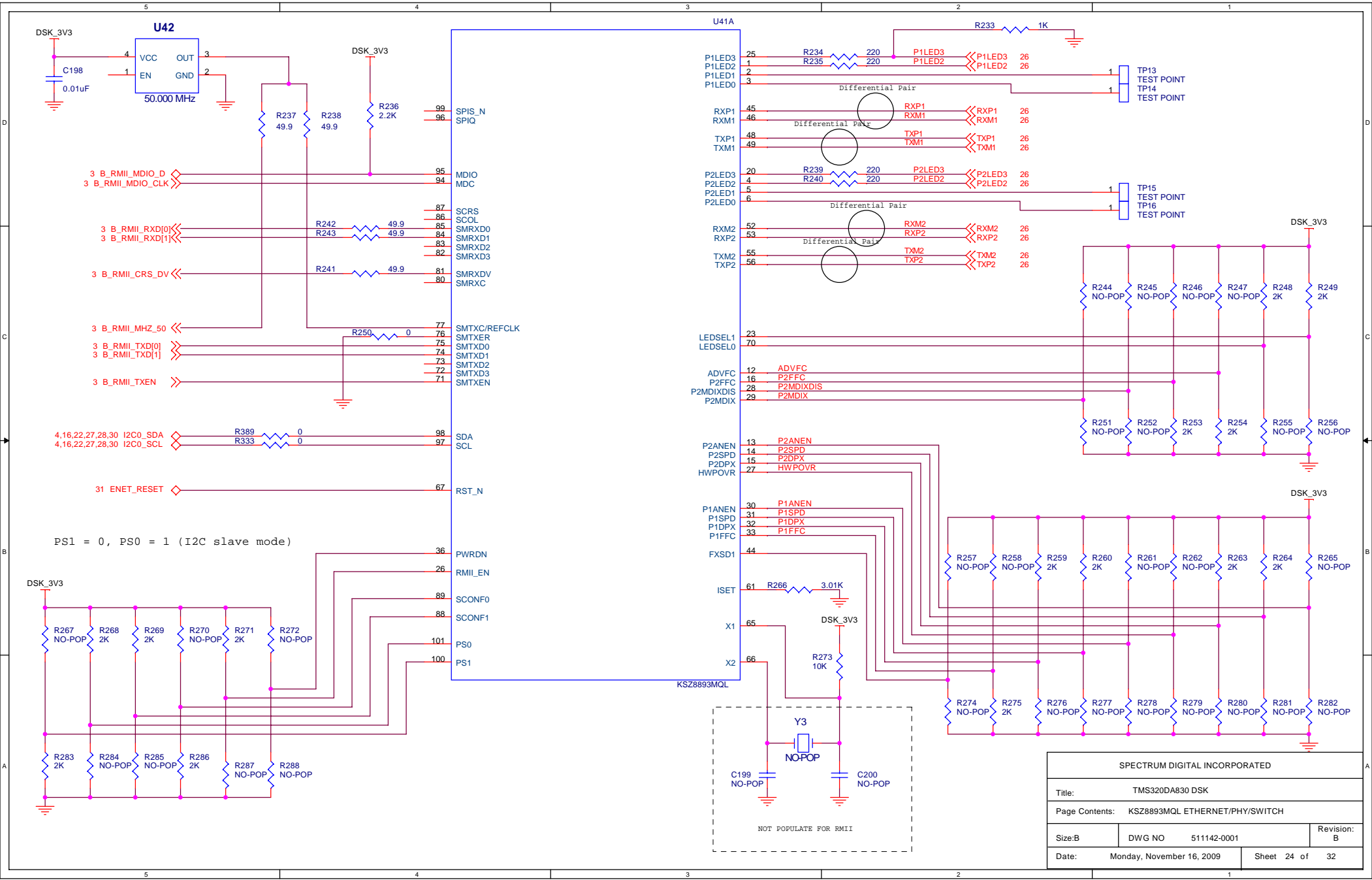


ISOLATE GROUNDS AND CONNECT AT SINGLE LOCATION IN THE GROUND PLANE

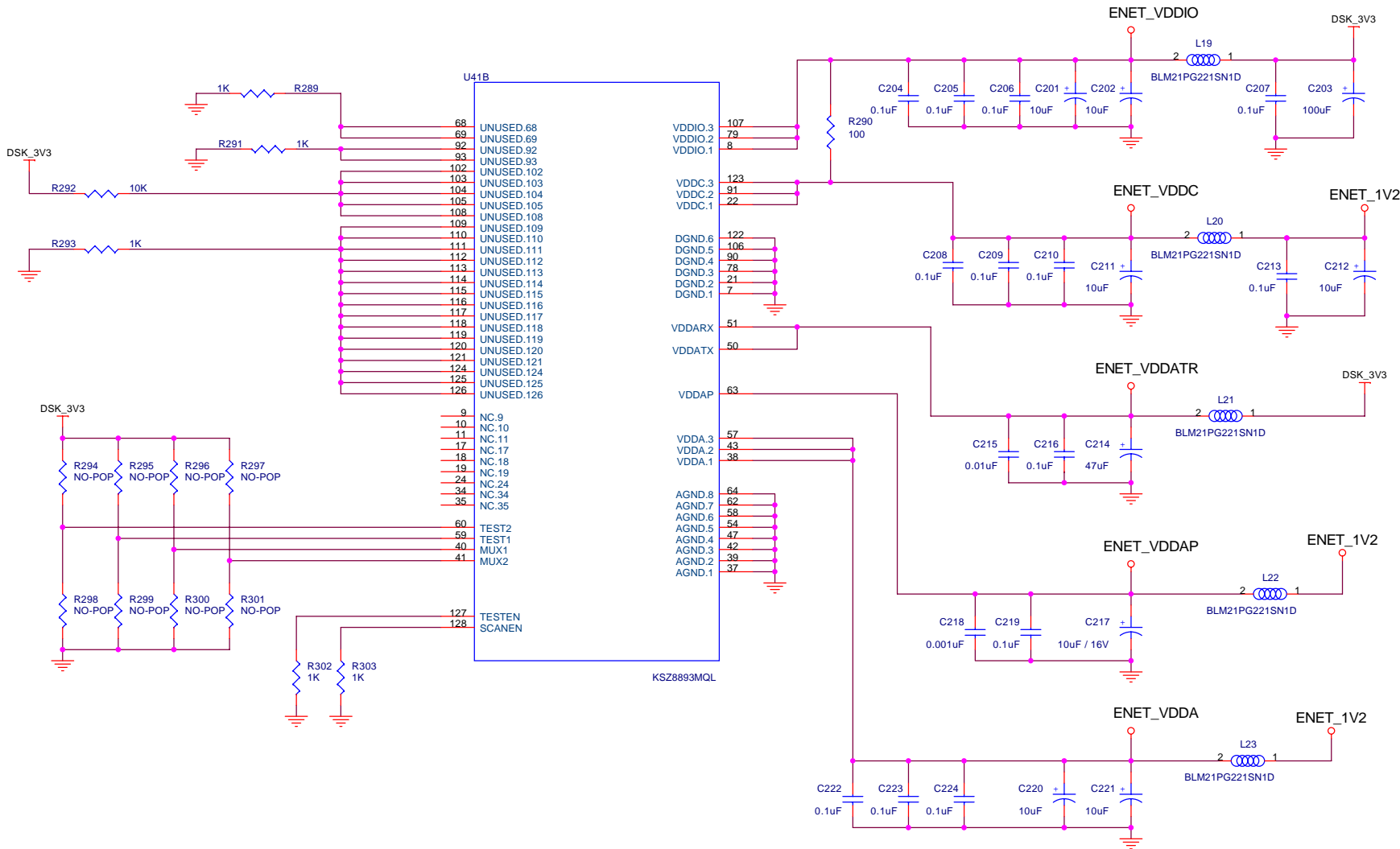
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Title: TMS320DA830 DSK			
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Size: B	DWG NO	511142-0001	Revision: B
Date:	Monday, November 16, 2009	Sheet 22 of	32



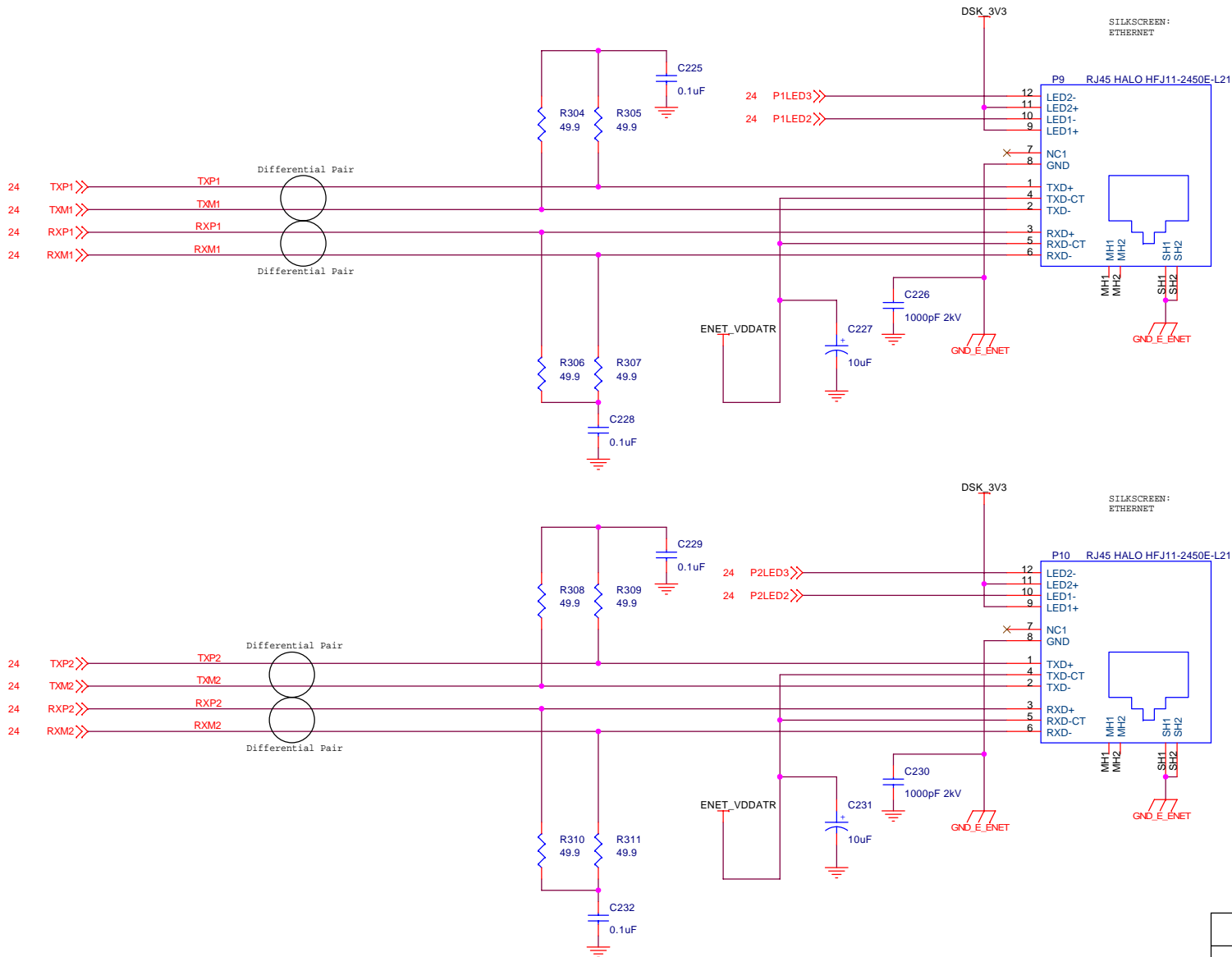
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Size: B	DWG NO	511142-0001	Revision: A
Date:	Monday, November 16, 2009	Sheet 23 of	32



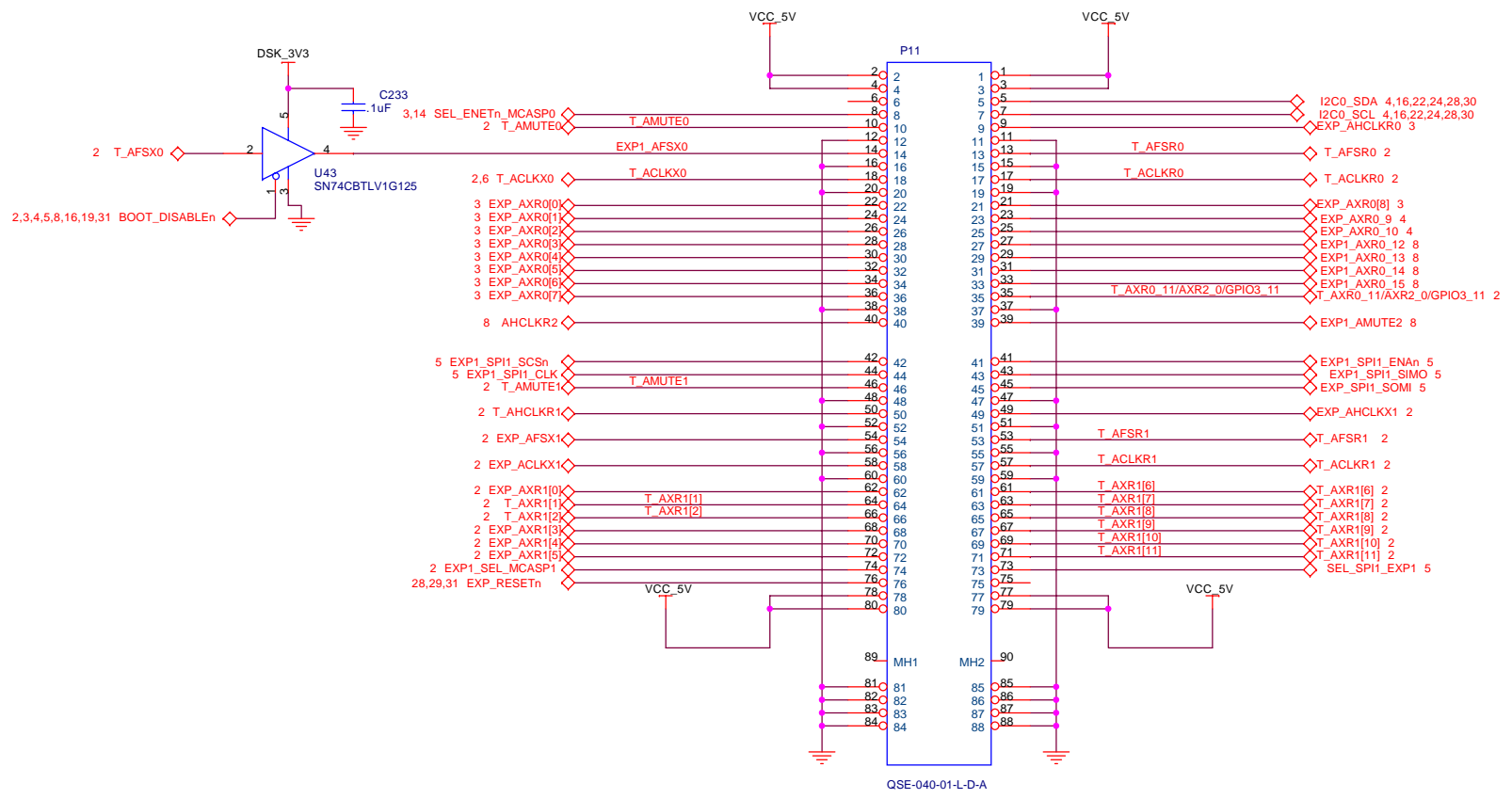
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Title: TMS320DA830 DSK			
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Size: B	DWG NO	511142-0001	Revision: B
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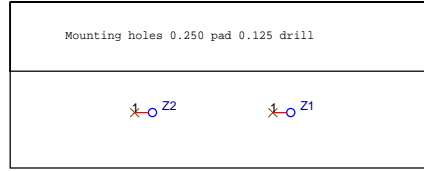
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Title: TMS320DA830 DSK			
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Size: B	DWG NO	511142-0001	Revision: A
Date:	Monday, November 16, 2009	Sheet	25 of 32



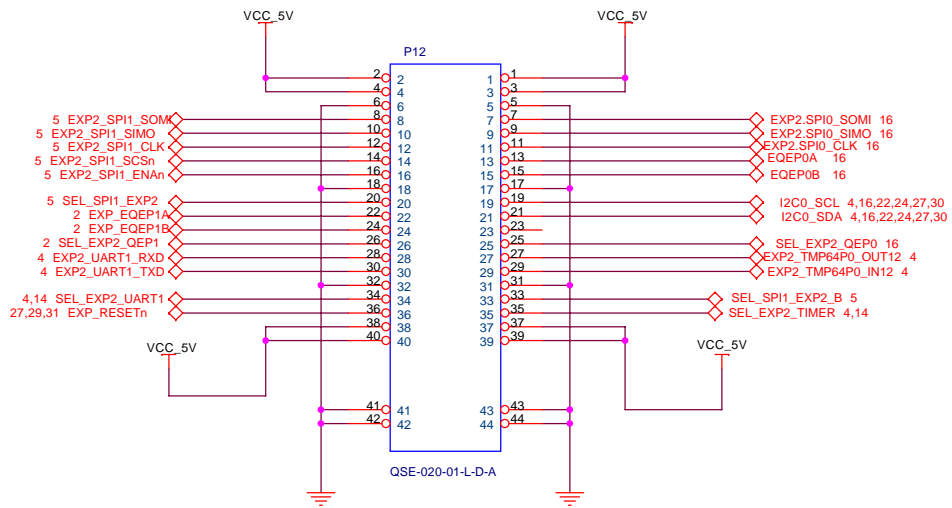
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Title:		TMS320DA830 DSK	
Page Contents: KSZ8893MQL ETHERNET PORTS			
Size: B	DWG NO	511142-0001	Revision: A
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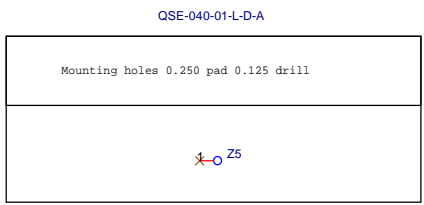
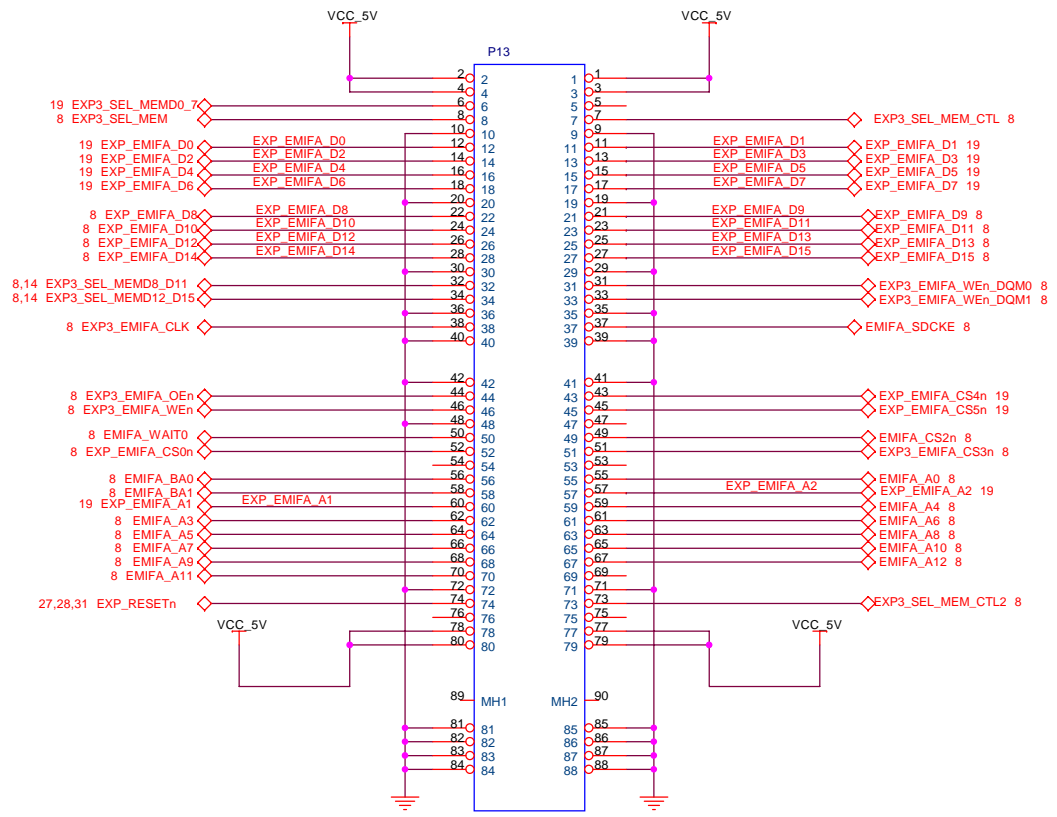
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Title: TMS320DA830 DSK			
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Size: B	DWG NO	511142-0001	Revision: A
Date:	Monday, November 16, 2009	Sheet	27 of 32



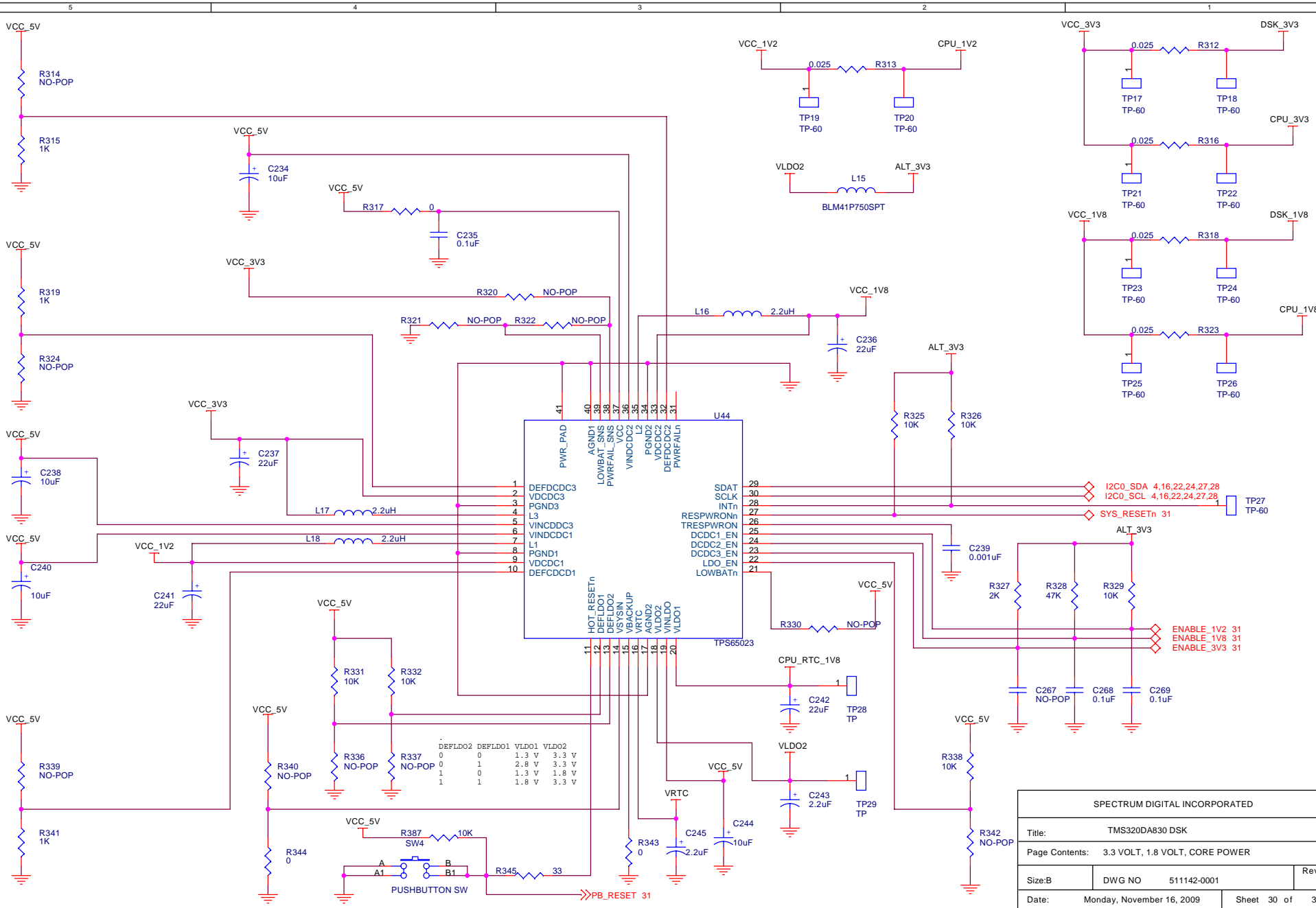
Mounting holes 0.250 pad 0.125 drill

⊗ Z3 ⊗ Z4

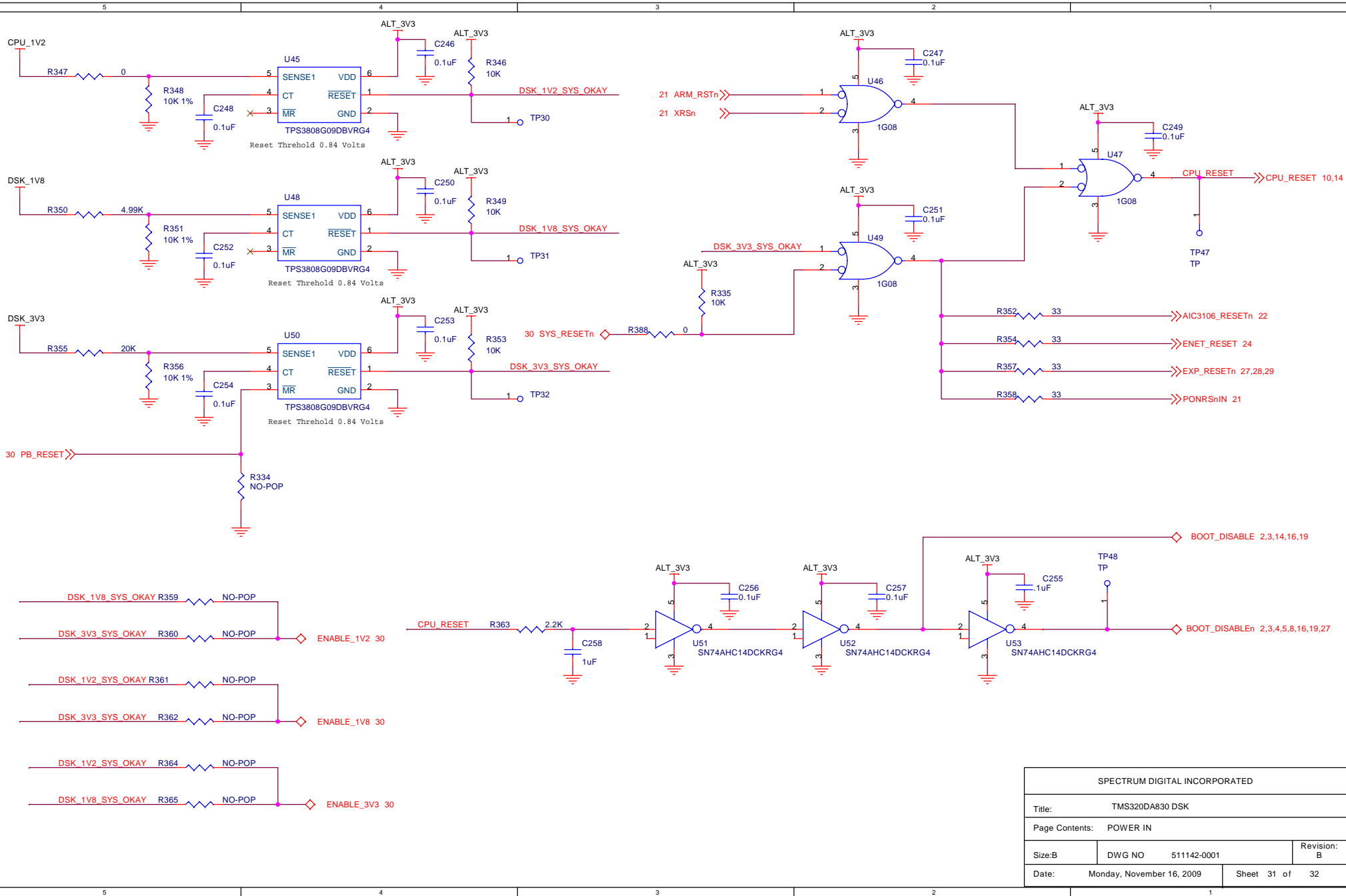
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Size: B	DWG NO	511142-0001	Revision: A
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SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: EXPANSION 3			
Size: B	DWG NO	511142-0001	Revision: B
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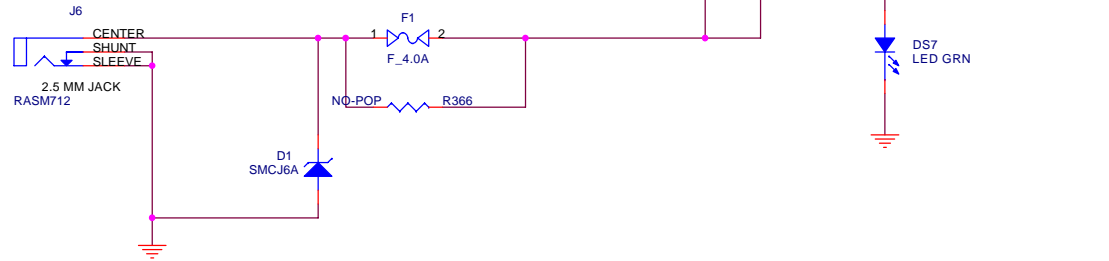


SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: 3.3 VOLT, 1.8 VOLT, CORE POWER			
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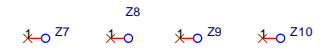


SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
Page Contents: POWER IN			
Size: B	DWG NO	511142-0001	Revision: B
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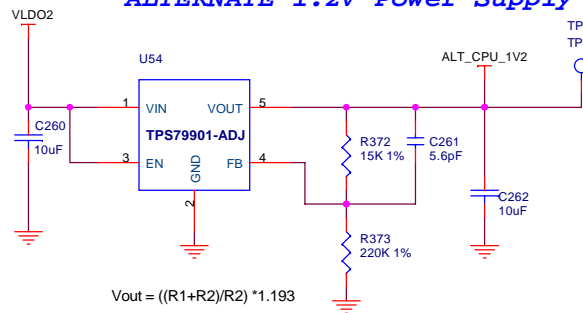
SILKSCREEN:  
5V IN



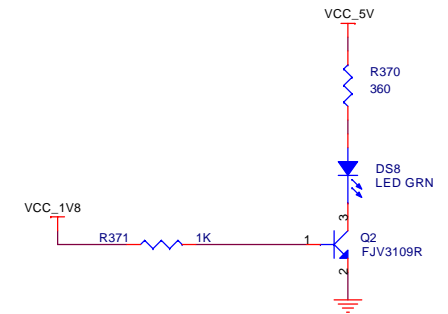
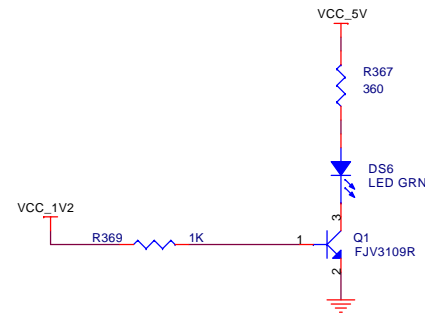
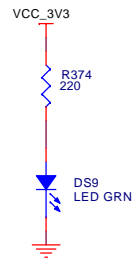
Mounting holes 0.250 pad 0.125 drill



### ALTERNATE 1.2V Power Supply



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



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320DA830 DSK			
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