

Appendix A

eZdsp™ F28335

Schematics

The schematics for the eZdsp™ F28335 can be found on the CD-ROM that accompanies this board. The schematics were drawn on ORCAD.

The schematics are correct for both the socketed and unsocketed version of the eZdsp™.

WARNING !

The TMS320F28335 supports +3.3V Input/Output levels which are NOT +5V tolerant. Connecting the eZdsp to a system with +5V Input/Output levels will damage the TMS320F28335. If the eZdsp is connected to another target then the eZdsp must be powered up first and powered down last to prevent latchup conditions.

Design Notes:

1. The TMS320F28335 X1/CLKIN pin is +1.8 volt input. The clock input is buffered with a SN74LVC1G14 whose supply is +1.8 volts. This provides +3.3 volts to the +1.8 volt clock translation. Refer to sheet 4 of the schematics.

REV		DESCRIPTION	DATE	APPROVED
A		ALPHA RELEASE	29-July-2007	

REVISION STATUS OF SHEETS									
REV	1	2	3	4	5	6	7		
DR									
REV	A	A	A	A	A	A			
DR	0	9	10	11	12	13			
REV	A	A	A	A	A	A			
DR	1	2	3	4	5	6	7		

REV	DATE	CHK	DATE
CHK			
ASCR			
ASCR-CHK			
CA			
APG			
ALL			

REVISION STATUS OF SHEETS		NEXT ASST		USED ON		APPLICATION	
REV	1	2	3	4	5	6	7
DR							
REV	A	A	A	A	A	A	
DR	0	9	10	11	12	13	
REV	A	A	A	A	A	A	
DR	1	2	3	4	5	6	7

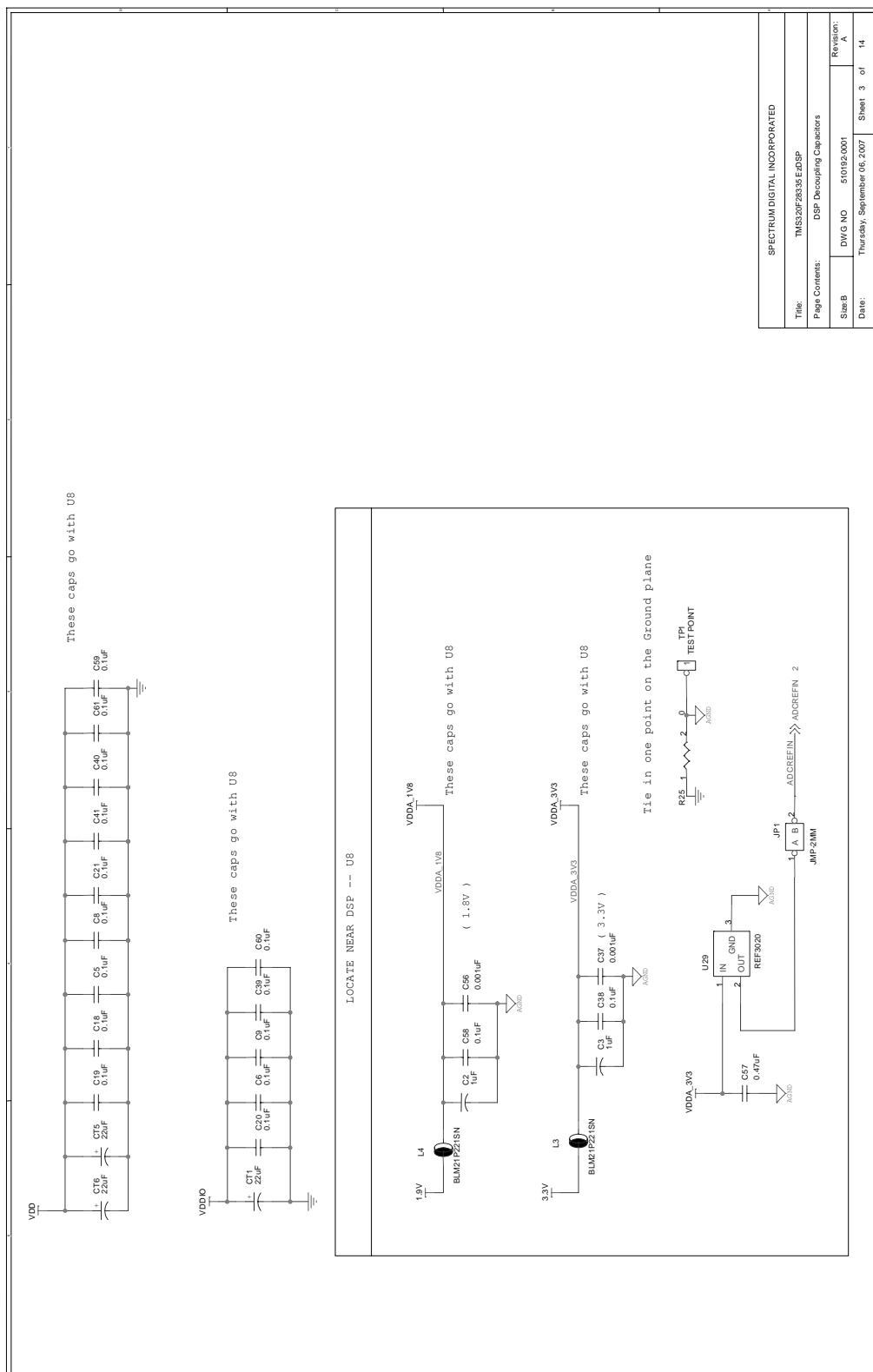
SCHEMATIC CONTENTS

SHEET01 - TITLE PAGE
 SHEET02 - TMS320F28335 DSP
 SHEET03 - DSP DECOUPLING CAPS
 SHEET04 - BOOT SWITCHES, OSC
 SHEET05 - MEMORY
 SHEET06 - I/O MULTIPLEXING
 SHEET07 - CAN, RS232
 SHEET08 - EMIF EXPANSION
 SHEET09 - I/O EXPANSION
 SHEET10 - ANALOG EXPANSION
 SHEET11 - JTAG
 SHEET12 - POWER
 SHEET13 - PLACEMENT TOP
 SHEET14 - PLACEMENT BOTTOM

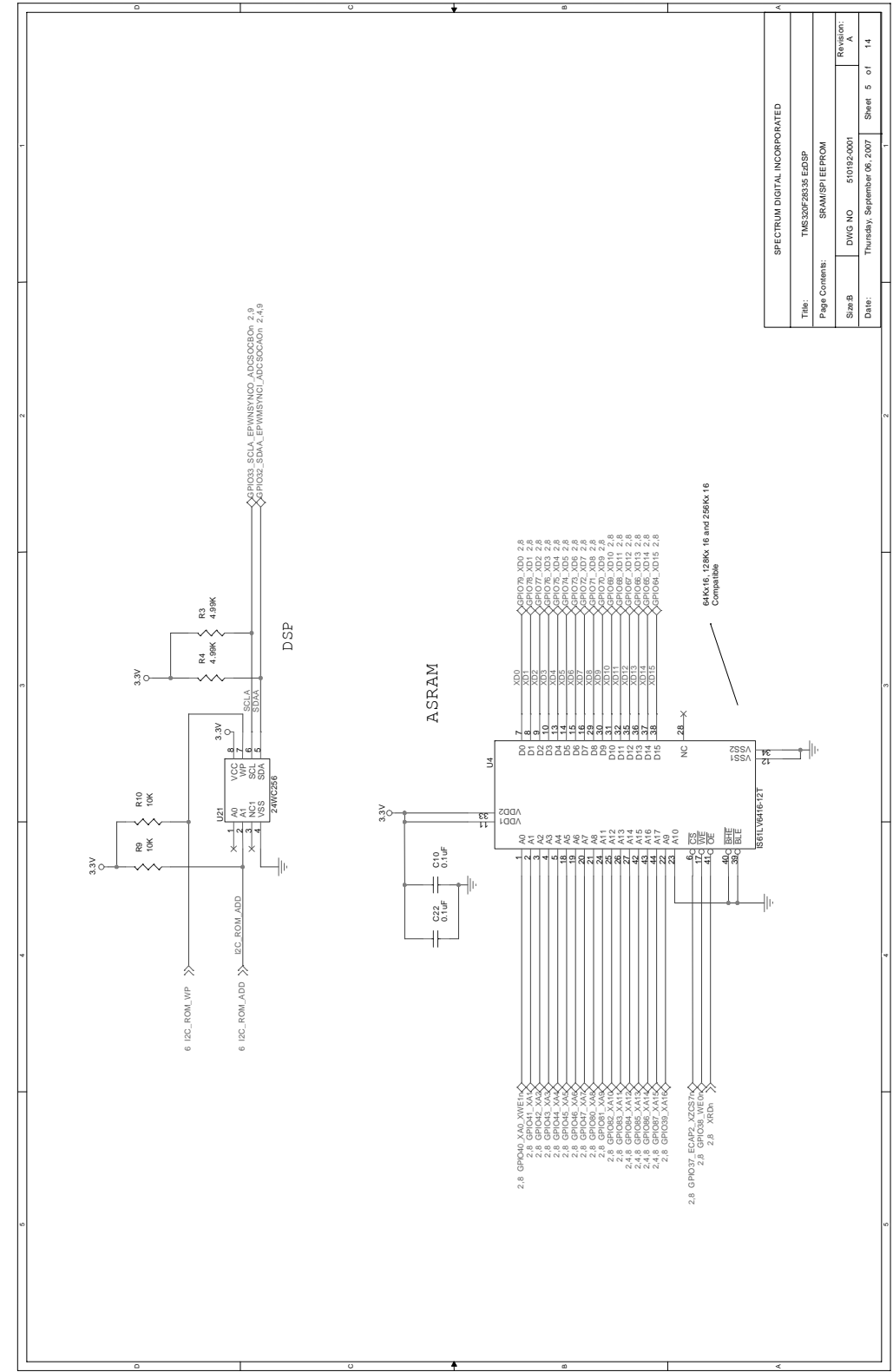
The TMS320F28335 EzDSP design is based on preliminary information (SPRS439, June 2007) for the TMS320F28335 device. This schematic is subject to change without notification. Spectrum Digital Inc. assumes no liability for applications assistance, customer product design or infringement of patents described herein.

SPECTRUM DIGITAL INCORPORATED			
Title: TMS320F28335 EzDSP			
Page Contents: Title Block			
Size B	DWG NO	Revision: A	
Date:	Thursday, September 06, 2007	Sheet	1 of 14

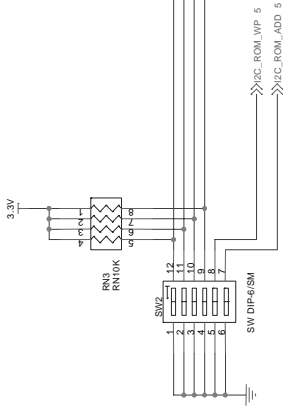
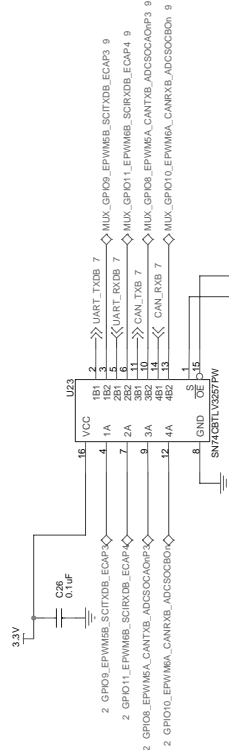
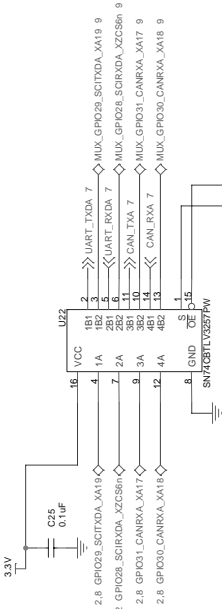




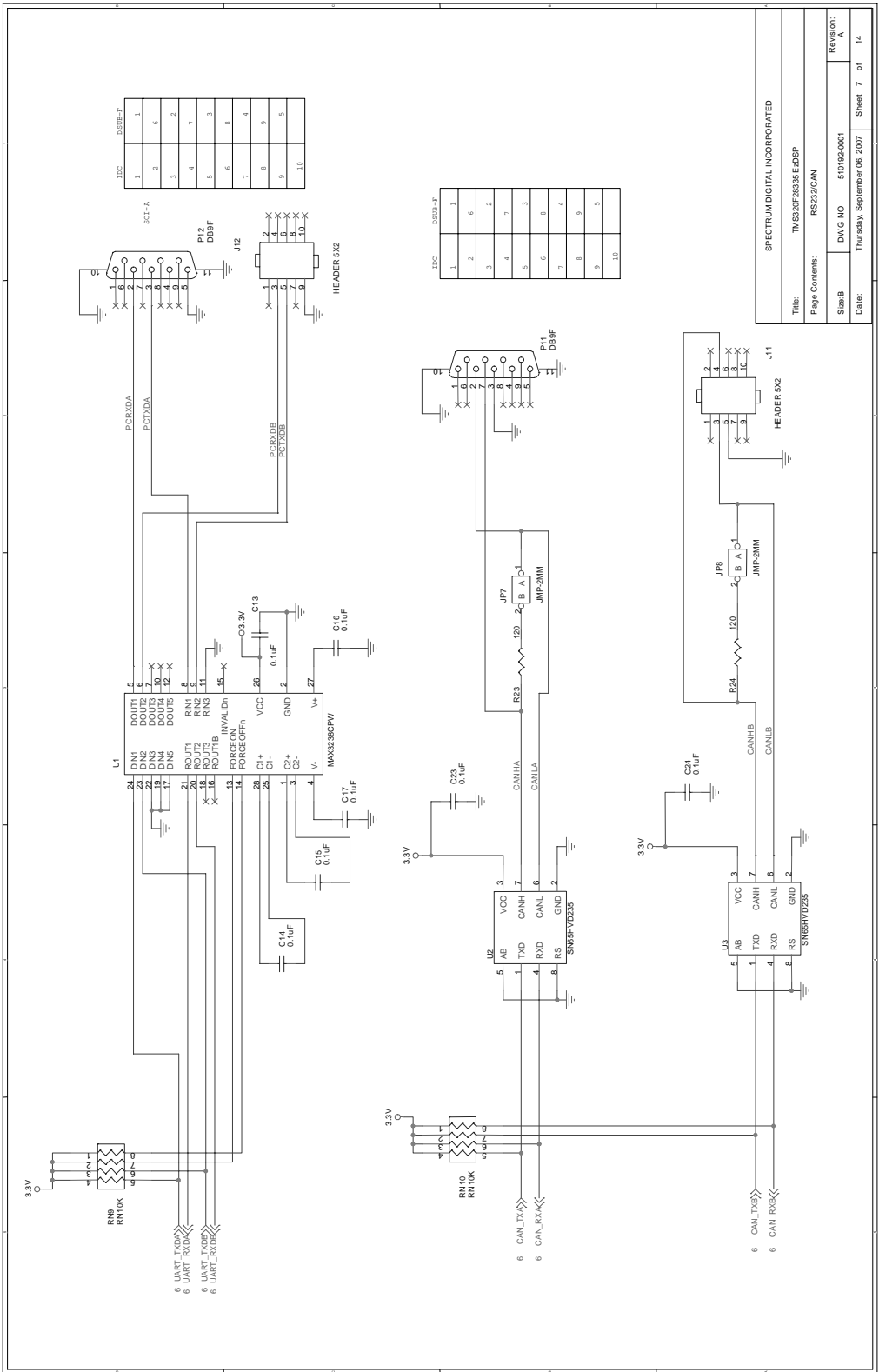




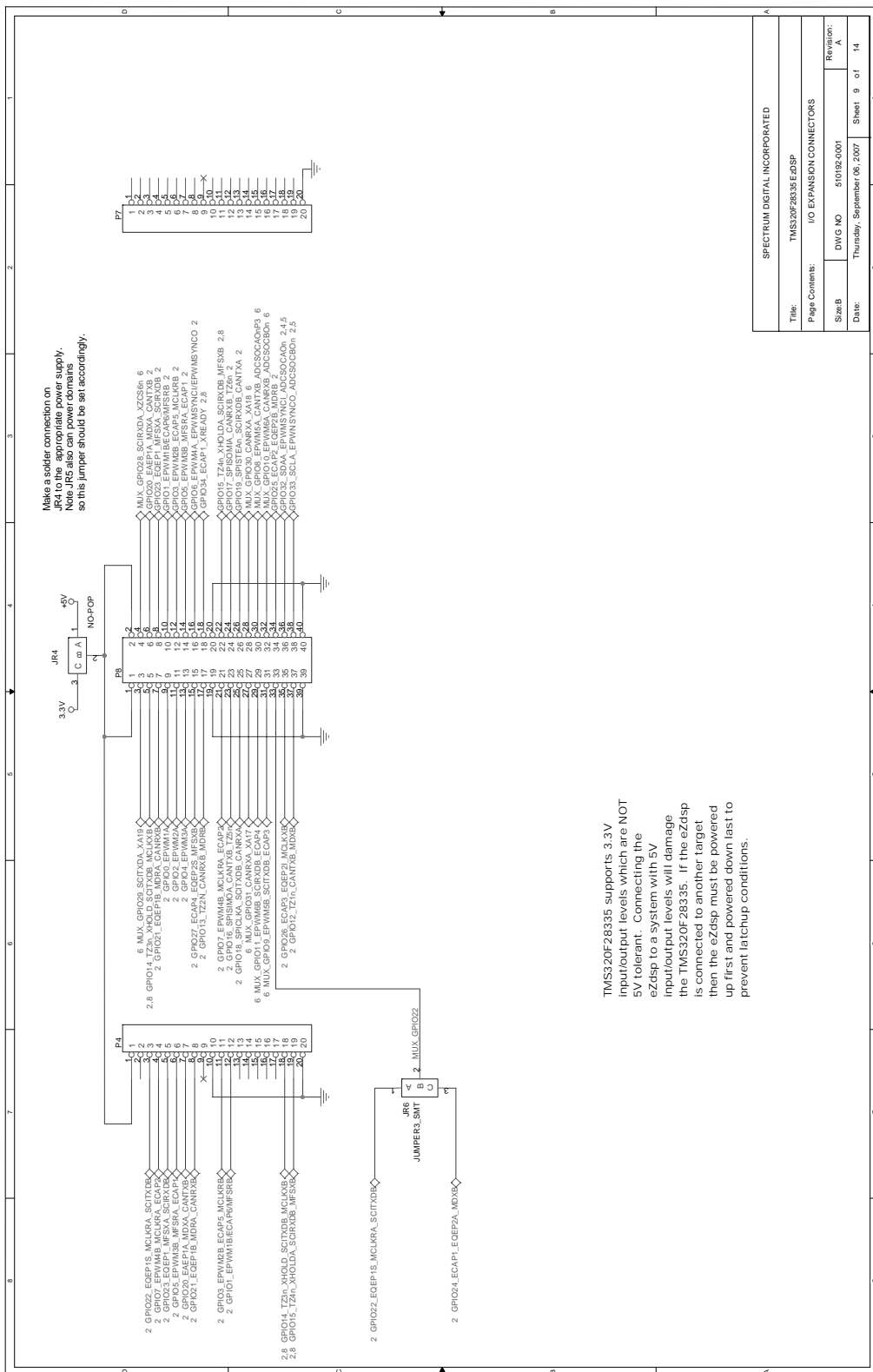
Switch	Position	Value	Function
SW2-1	OFF	1	Select GPIO28,GPIO29,GPIO30,GPIO31 as expansion
SW2-1	ON	0	Select GPIO28,GPIO29,GPIO30,GPIO31 as on board SCI/CAN A
SW2-2	OFF	1	Disable Mux U22
SW2-2	ON	0	Enable Mux U22
SW2-3	OFF	1	Select GPIO8,GPIO9,GPIO10,GPIO11 as expansion
SW2-3	ON	0	Select GPIO8,GPIO9,GPIO10,GPIO11 as on board SCI/CAN B
SW2-4	OFF	1	Disable Mux U23
SW2-4	ON	0	Enable Mux U23
SW2-5	OFF	1	Write Protect I2C EEPROM
SW2-5	ON	0	Enable Writes to I2C EEPROM
SW2-6	OFF	1	I2C EEPROM lowest address is 1
SW2-6	ON	0	I2C EEPROM lowest address is 0



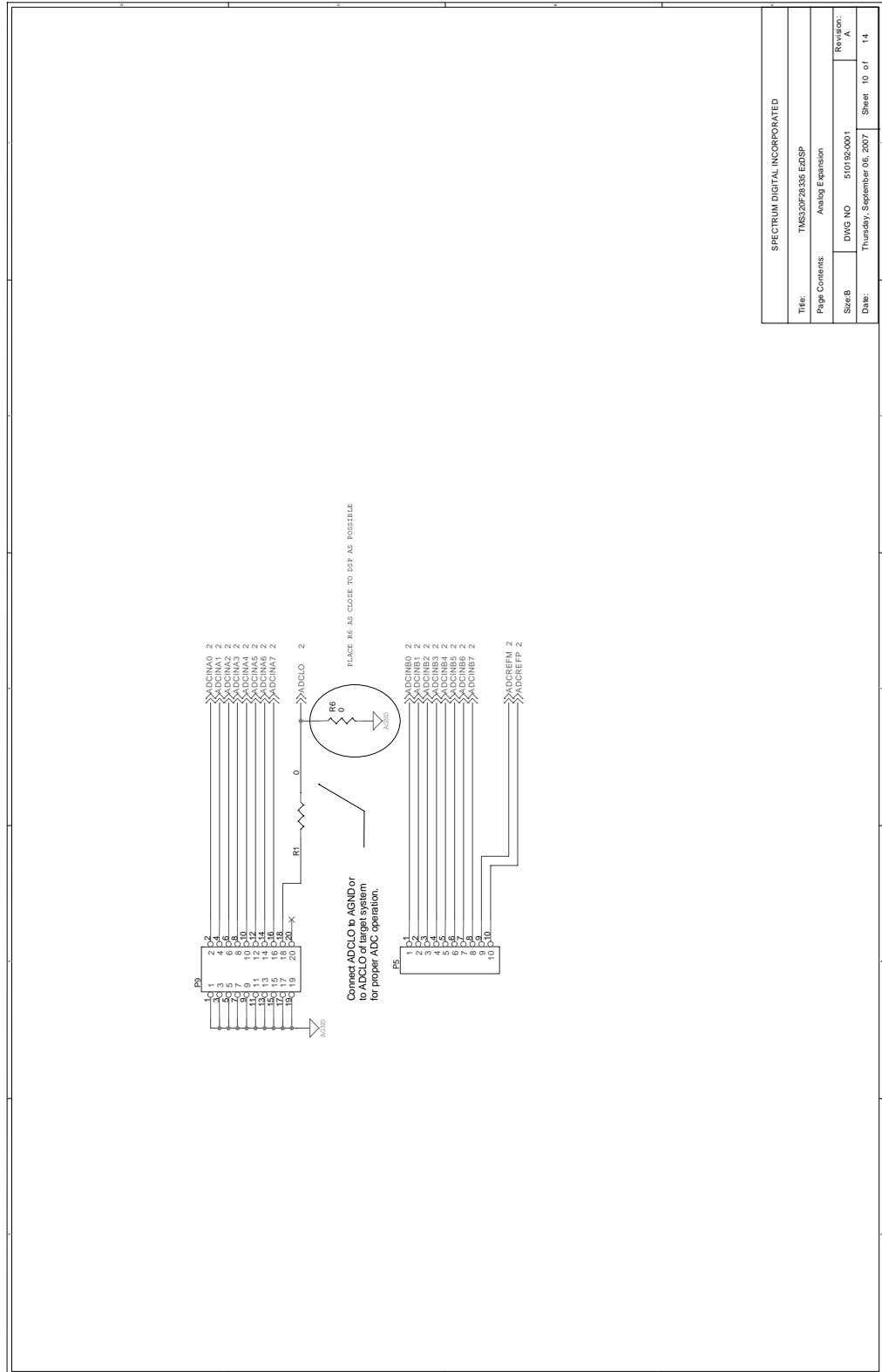
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Page Contents:	I/O MULTIPLEXING		
Size B	DWG NO	510182-0001	Revision: A
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TMS320F28335 supports 3.3V input/output levels which are NOT 5V tolerant. Connecting the eZdsp to a system with 5V input/output levels will damage the TMS320F28335. If the eZdsp is connected to another target then the eZdsp must be powered up first and powered down last to prevent latchup conditions.



SPECTRUM DIGITAL INCORPORATED			
Title: TMS320F2335 EZDSP			
Page Contents: Analog Expansion			
Size: B	DWG NO: 510192-0001	Revision: A	
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