

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.

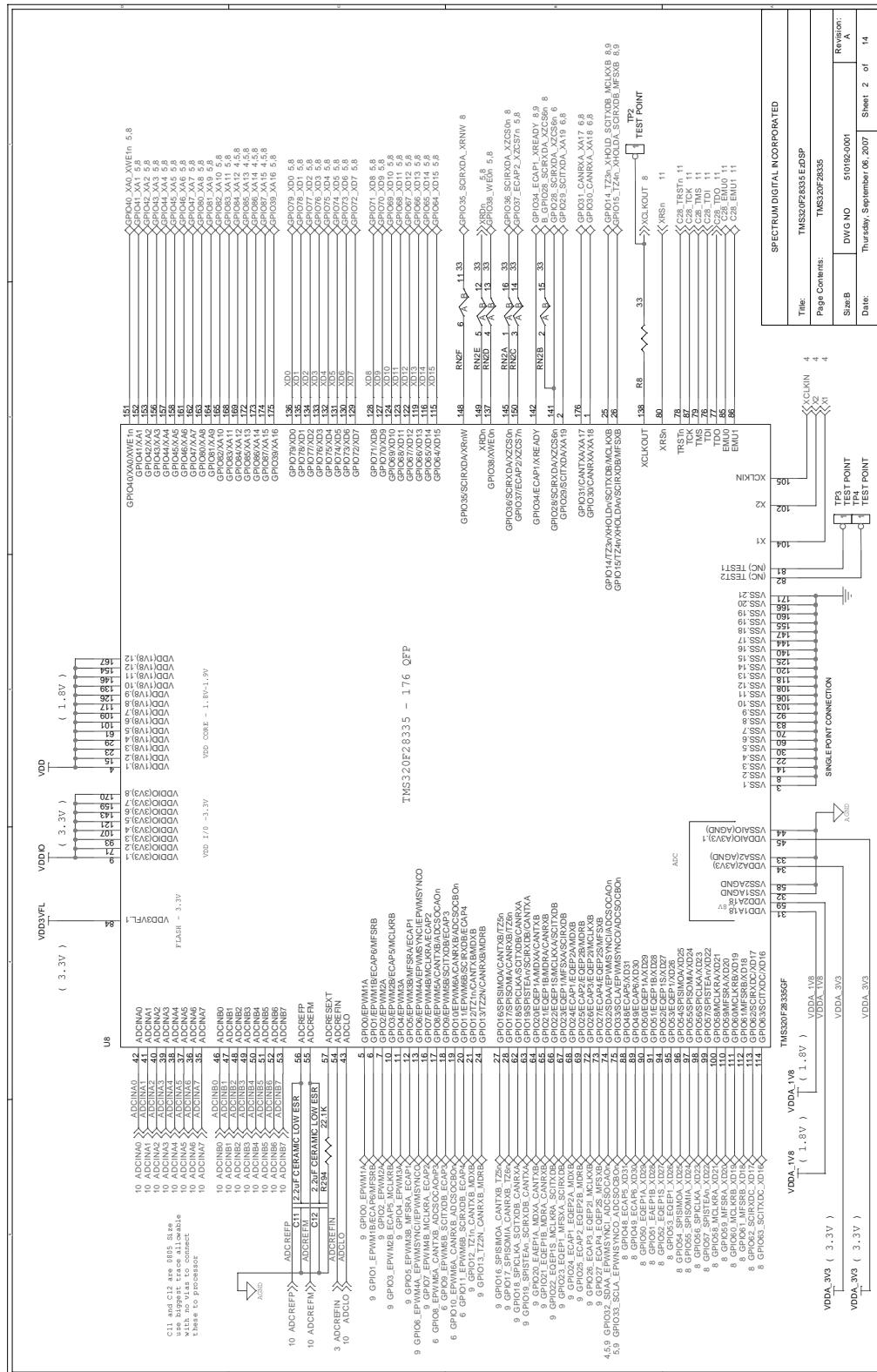
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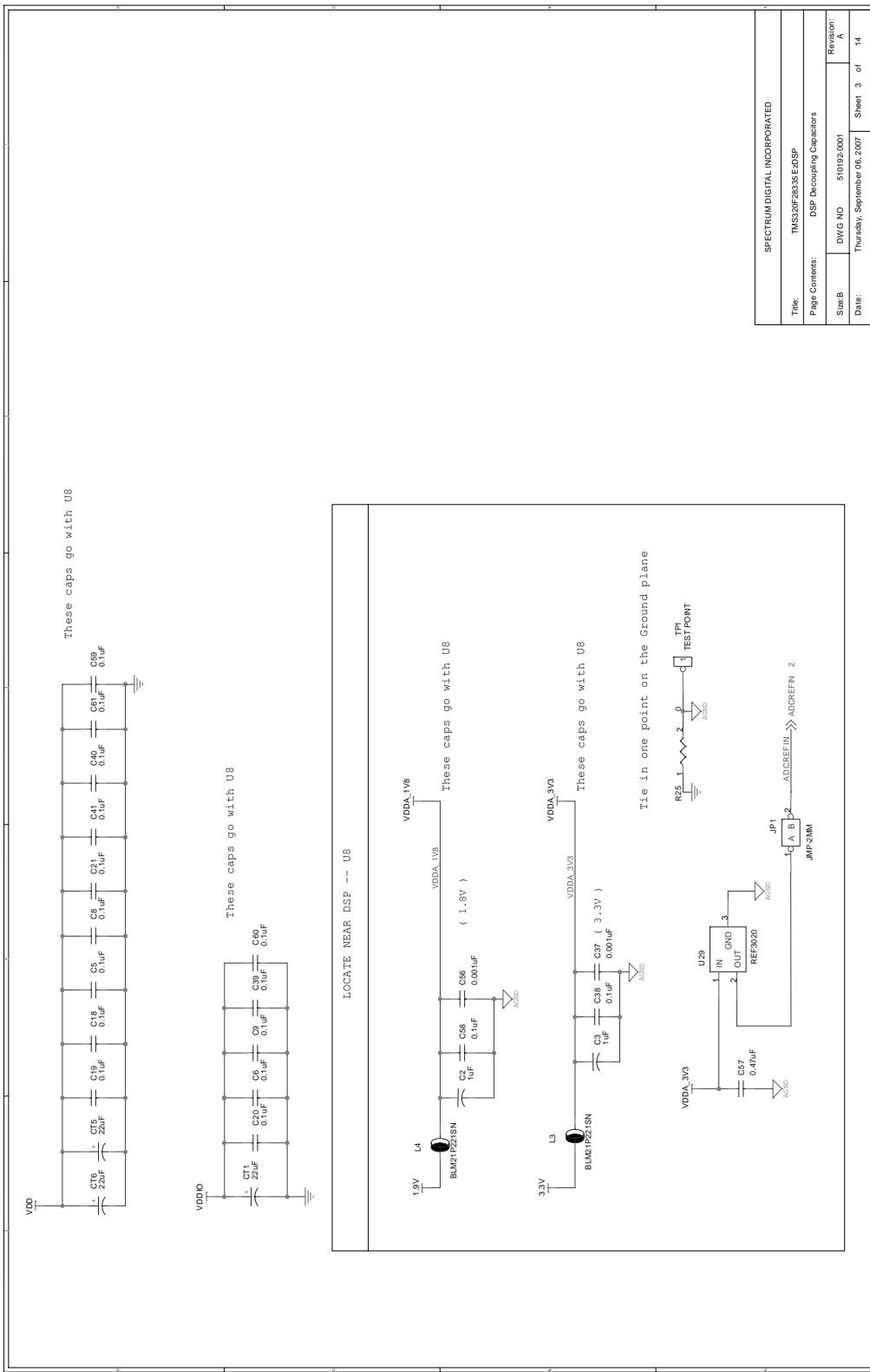
SCHEMATIC CONTENTS

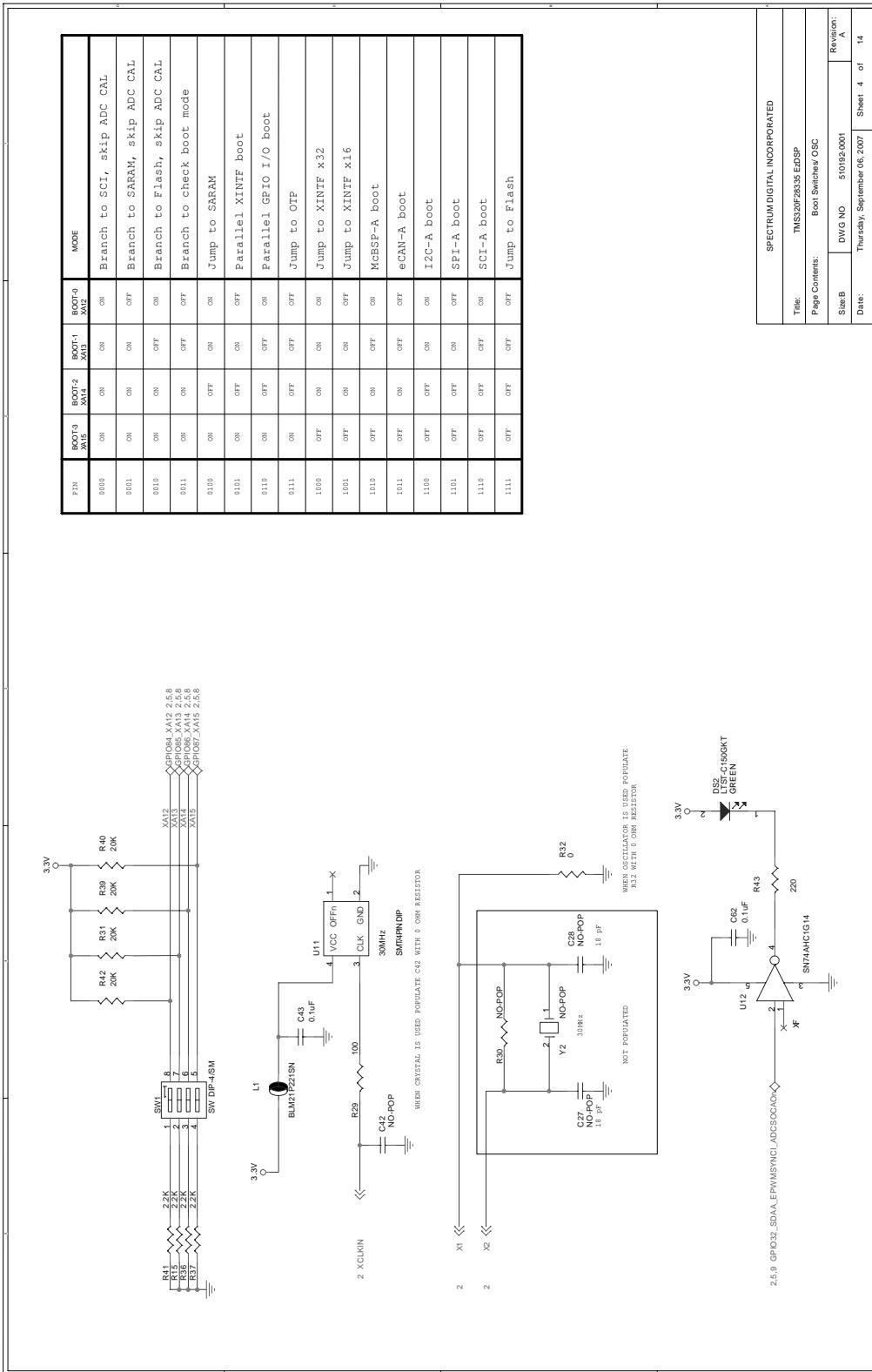
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SHEET05	MEMORY
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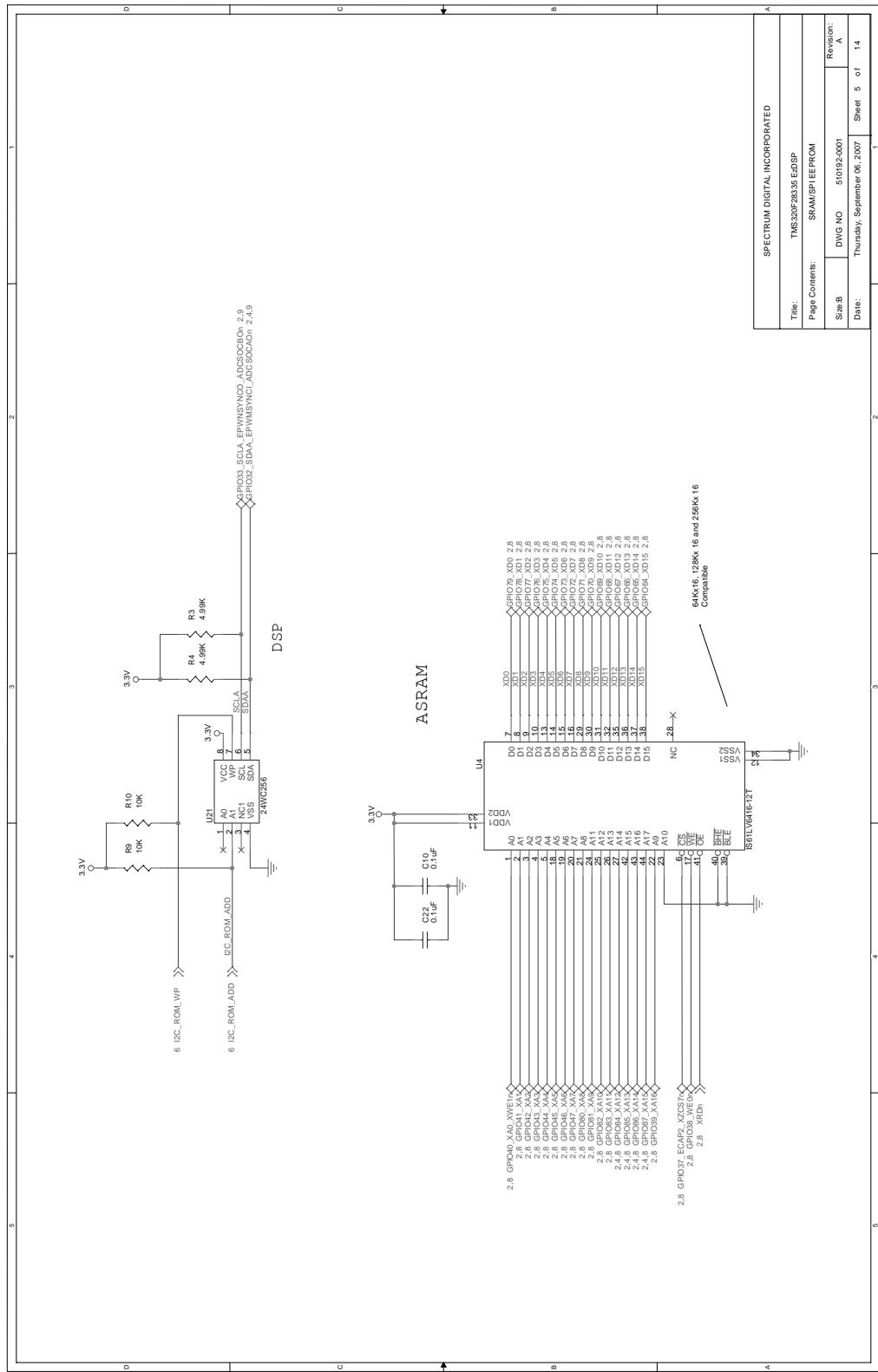
The TMS320F28335 EZDSP design is based on preliminary information (SPRS439 June 2007) for the TMS320F28335 device. This schematic is subject to change without notification. Specium Digital Inc. assumes no liability for applications assistance, customer product design or infringement of patents disclosed herein.

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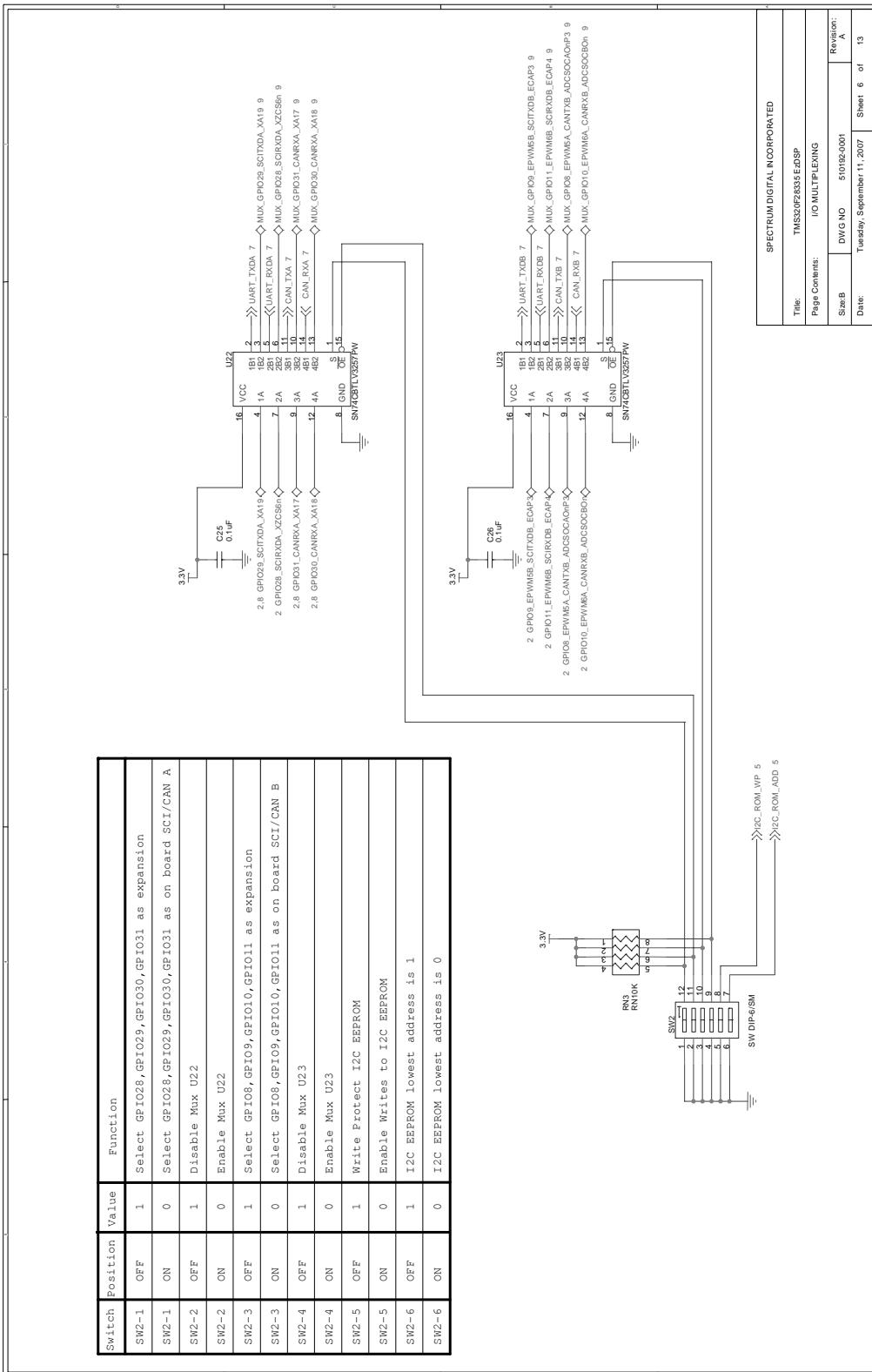


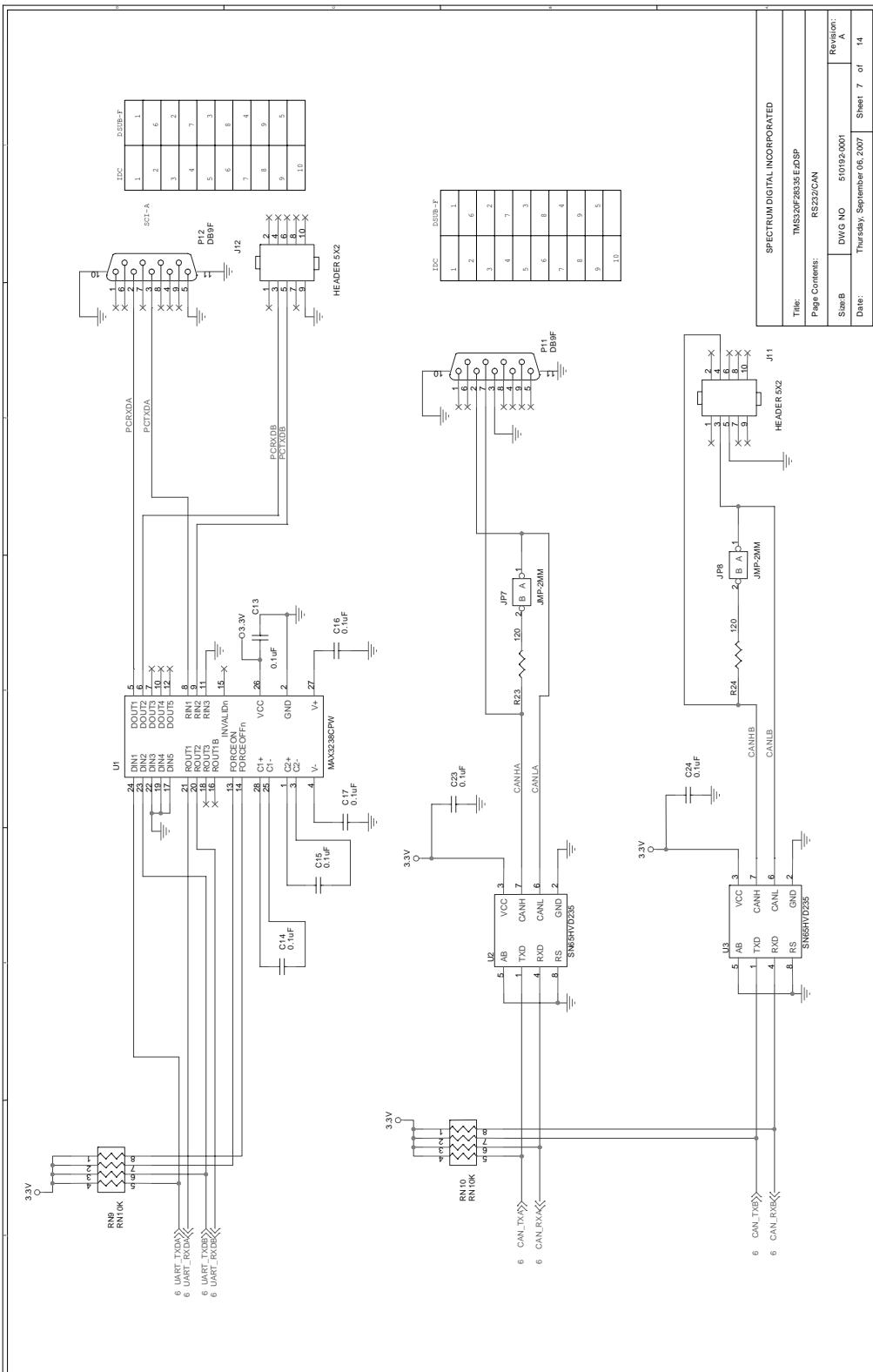


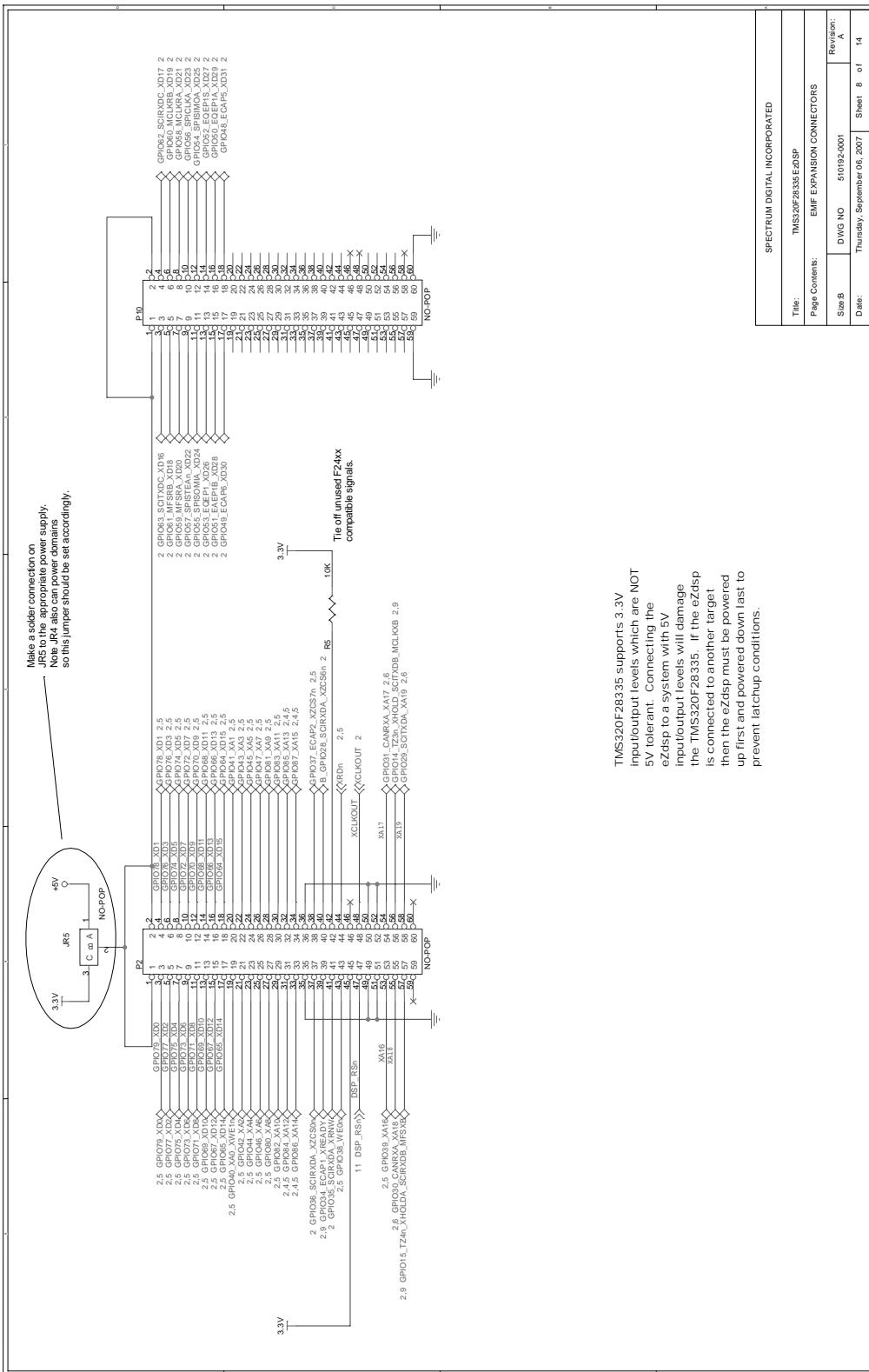




Switch	Position	Value	Function
SW2-1	OFF	1	Select GPIO28,GPIO29,GPIO30,GPIO31 as expansion
SW2-1	ON	0	Select GPIO28,GPIO29,GPIO30,GPIO31 as on board SCI/CAN A
SW2-2	OFF	1	Disable Mux U22
SW2-2	ON	0	Enable Mux U22
SW2-3	OFF	1	Select GPIO8,GPIO9,GPIO10,GPIO11 as expansion
SW2-3	ON	0	Select GPIO8,GPIO9,GPIO10,GPIO11 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

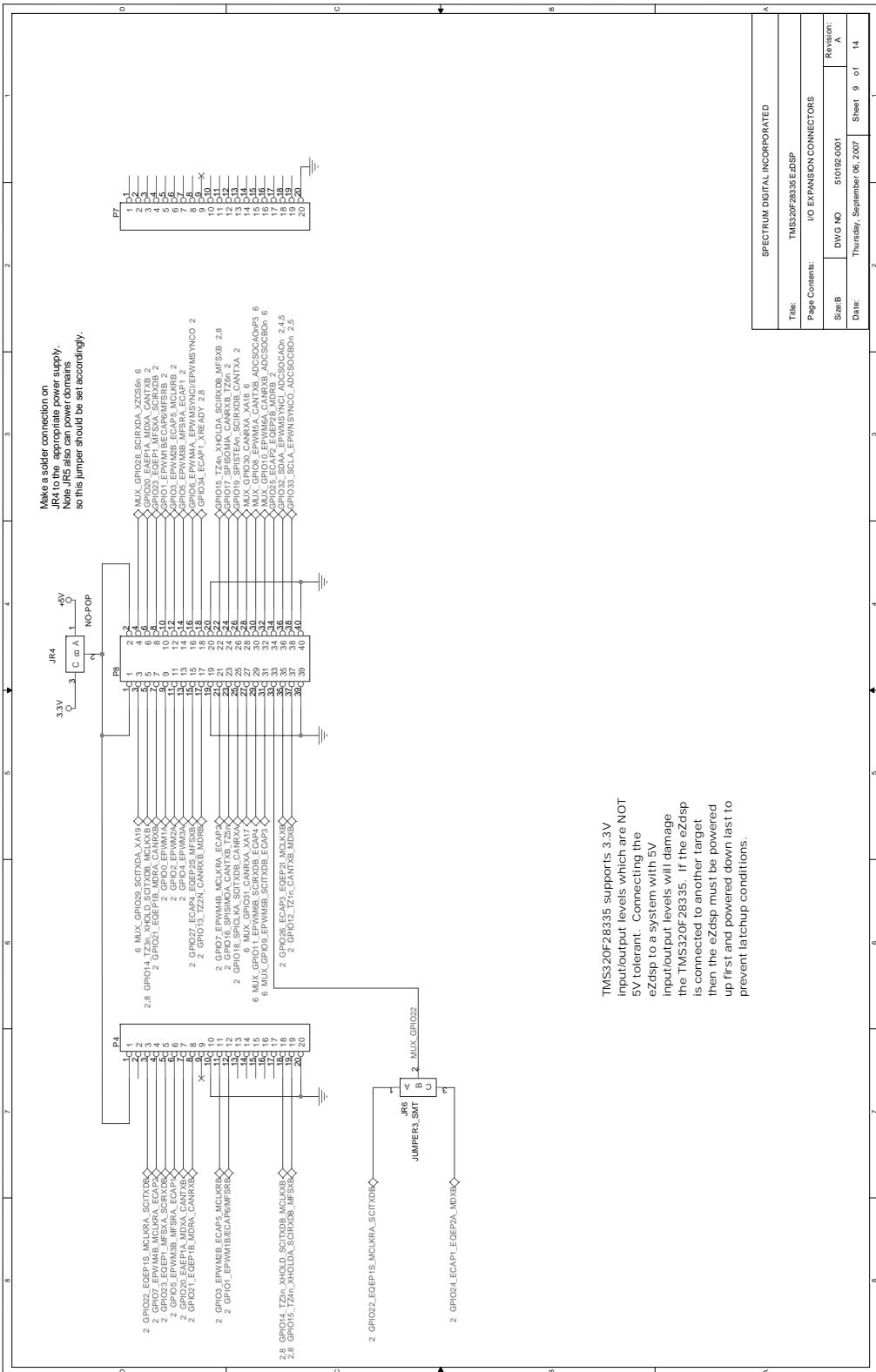






TMS320F28335 supports 3.3V input/output levels which are NOT 5V tolerant. Connecting the ezDSP to a system with 5V input/output levels will damage the TMS320F28335. If the ezDSP is connected to another target then the ezDSP must be powered up first and powered down last to prevent latchup conditions.

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TM3S20F28335 supports 3.3 V input/output levels which are NOT 1.5V tolerant. Connecting the eZDSP to a system with 5V input/output levels will damage the eZDSP. If the eZDSP is connected to another target through TM3S20F28335, the eZDSP must be powered up first and powered down last to prevent latchup conditions.

