01-November-2004

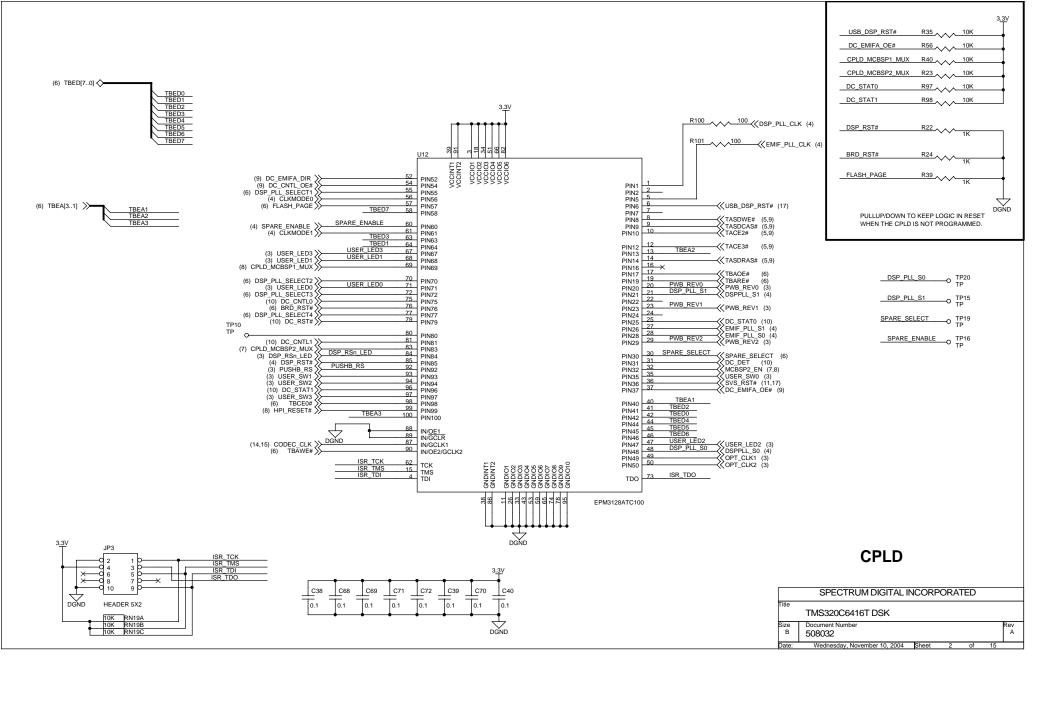
The TMS320C6416T DSK design is based on TMS320C6416T device device data sheet SPRS226C. This schematic is subject to change without notification. Spectrum Digital Inc. assumes no liability for applications assistance, customer product design or infringement of patents described herein.

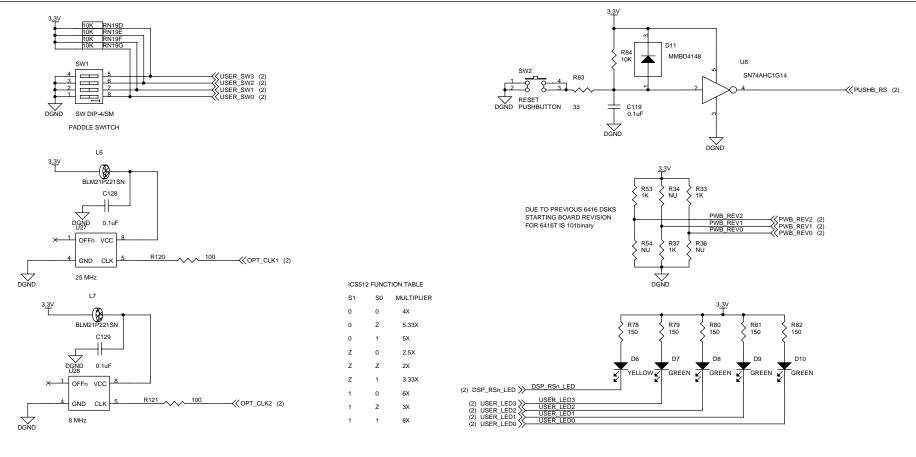
SCHEMATIC CONTENTS:

- 1 COVER SHEET
- 2 CPLD
- 3 OPTIONS/USER SWITCHES/LEDS
- 4 6416T CONTROL
- 5 6416T EMIFA/SDRAM
- 6 6416T EMIFB/FLASH
- 7 6416T MCBSP INTERFACE
- 8 6416T UTOPIA AND HPI INTERFACES
- 9 DSK DAUGHTERCARD BUFFERS
- 10 DSK DAUGHTERCARD INTERFACE
- 11 DSK POWER SUPPLIES
- 12 6416T POWER AND DECOUPLING CAPS
- 13 EMULATION CONNECTIONS
- 14 HIERARCHICAL BLOCKS
- 15 AIC23 CODEC

REVISION STATUS OF SHEETS										R.R.P.	NOV 01,2004
								CE		CHK	DATE
REV	Α									R.R.P.	NOV 01,2004
										ENGR	DATE
SH	15									J.T.C.	NOV 01,2004
										ENGR-MGR	DATE
REV	Α	A	Α	Α	Α	Α	A			R.R.P.	NOV 01,2004
										QA	DATE
SH	8	9	10	11	12	13	14			C.M.D.	NOV 01,2004
										MFG	DATE
REV	Α	Α	Α	Α	Α	Α	A	NEXT ASSY	USED ON	C.M.D.	NOV 01,2004
										RLSE	DATE
SH	1	2	3	4	5	6	7	APPLICATION		T.M.K.	NOV 01.2004

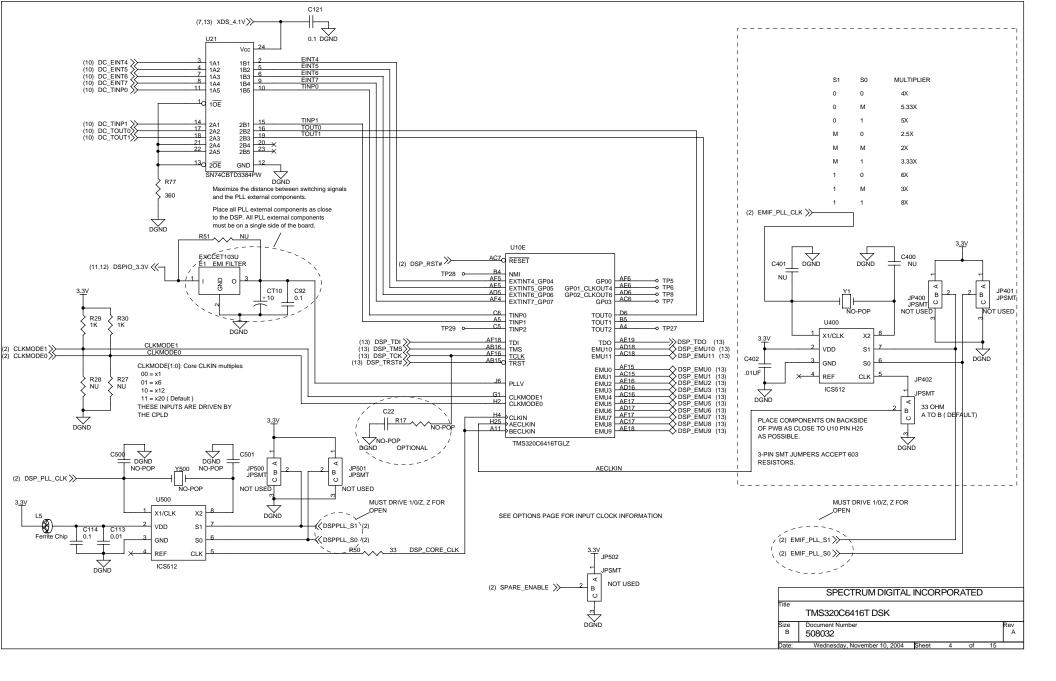
	SPECTRUM DIGITAL INCORPORATED	
Title	TMS320C6416TDSK	
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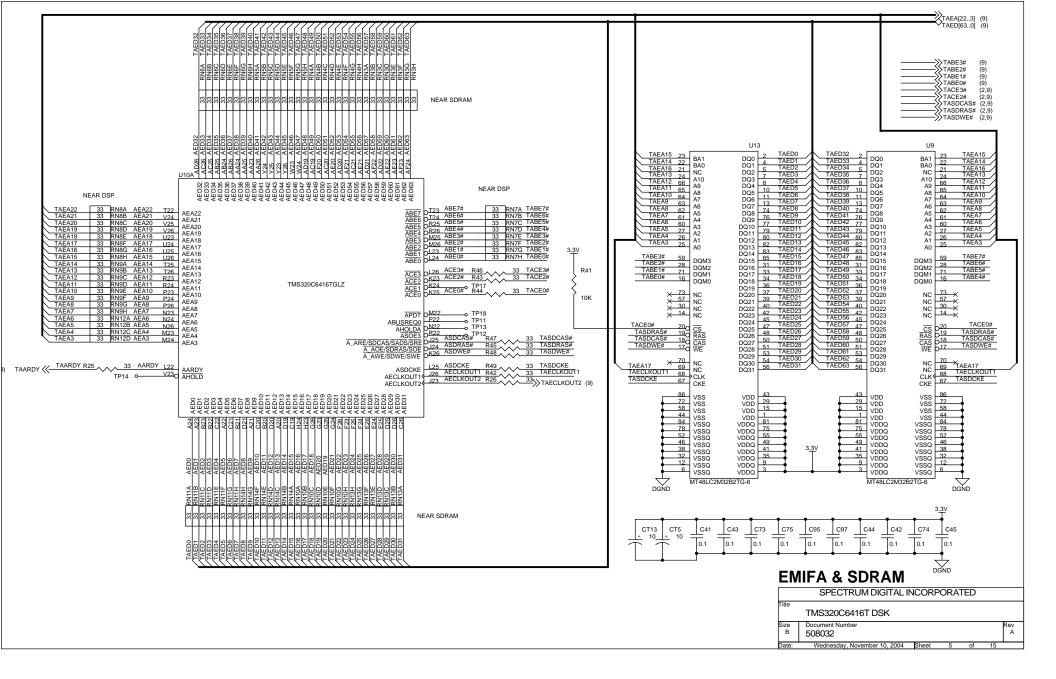


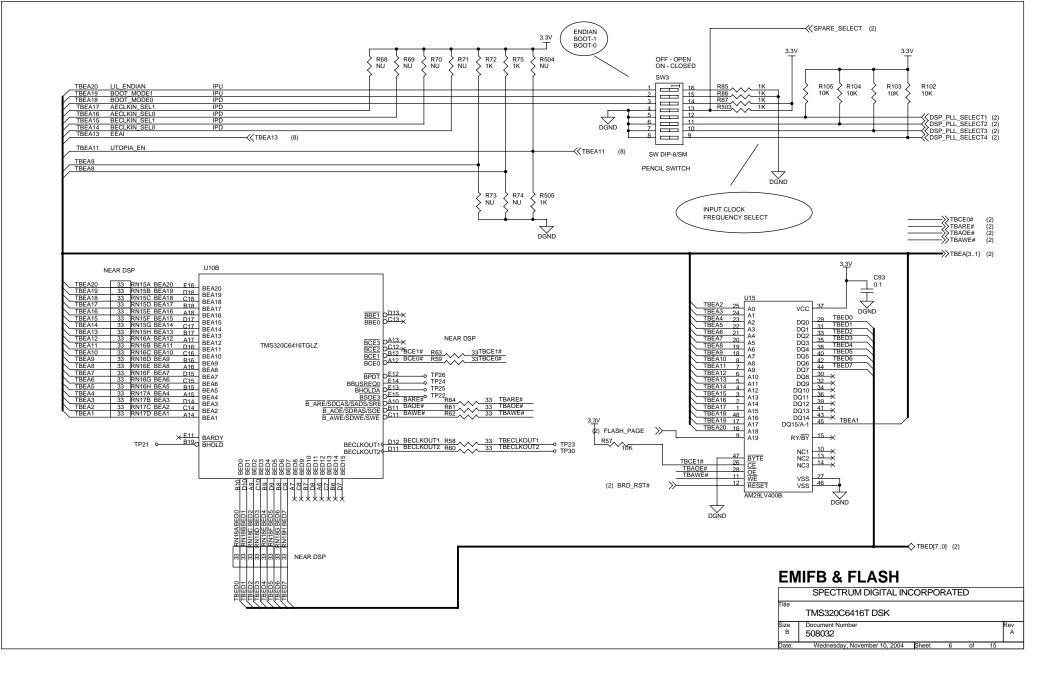


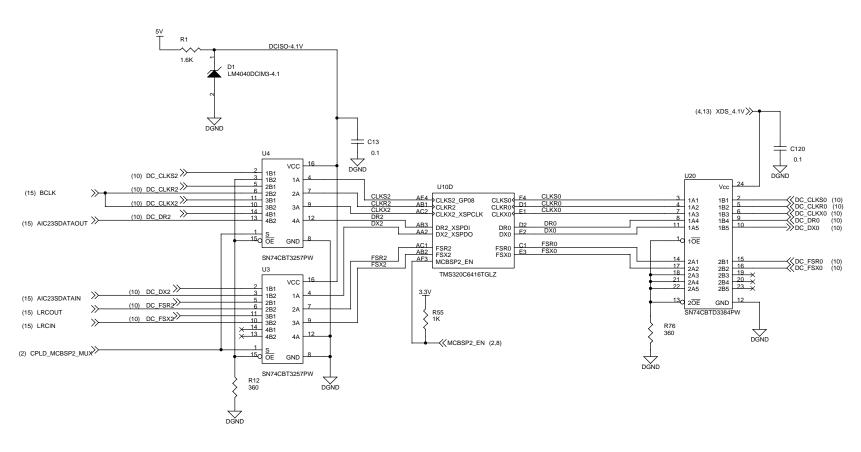
CPU FREQ	PLL IN-CLK	CPU MULT	PLL MULT	PLL CODE	EMIF FREQ	PLL IN-CLK	PLL MULT	PLL CODE	SW3 -5	SW3 -6	SW3 -7	SW3 -8
500 MHz	12.5 MHz	20	2	ZZ	100 MHz	25 MHz	4	0 0	ON	OFF	OFF	ON
600 MHz	12 MHz	20	2.5	Z 0	100 MHz	25 MHz	4	0 0	OFF	ON	OFF	ON
720 MHz	12 MHz	20	3	1 Z	125 MHz	25 MHz	5	0 1	ON	ON	OFF	OFF
850 MHz	8 MHz	20	5.33	0 Z	125 MHz	25 MHz	5	0 1	OFF	OFF	ON	OFF
1000 MHz	12.5 MHz	20	4	0 0	125 MHz	25 MHz	5	0 1	OFF	OFF	OFF	OFF
1200 MHz	12 MHz	20	5	0 1	125 MHz	25 MHz	5	0 1	ON	ON	ON	OFF

	SPECTRUM DIGITAL INCORPORATED
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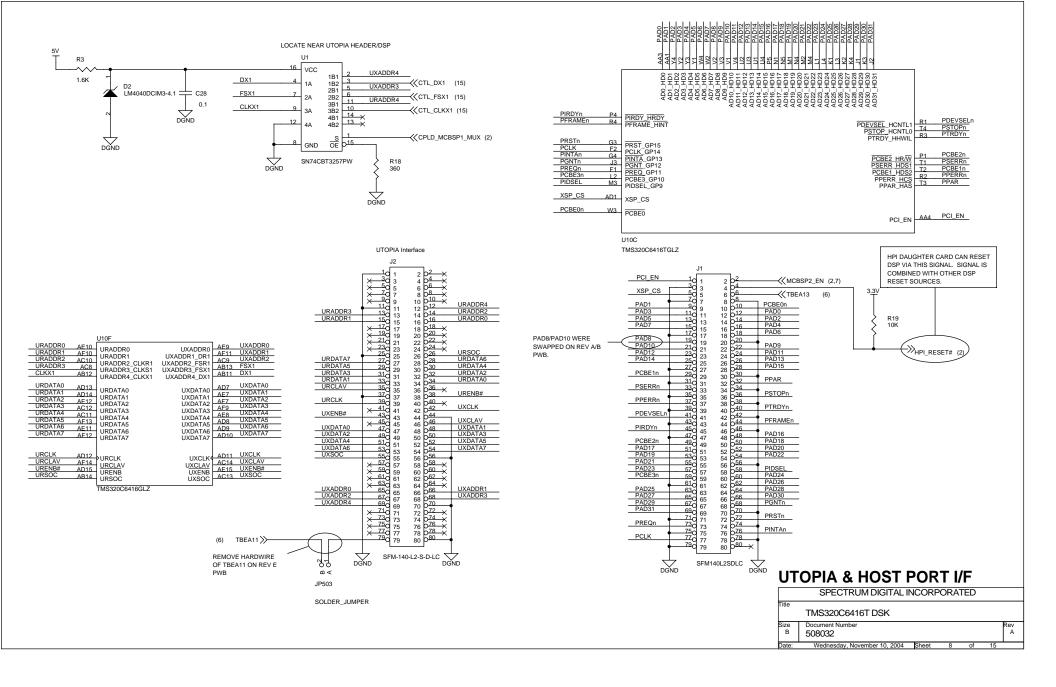


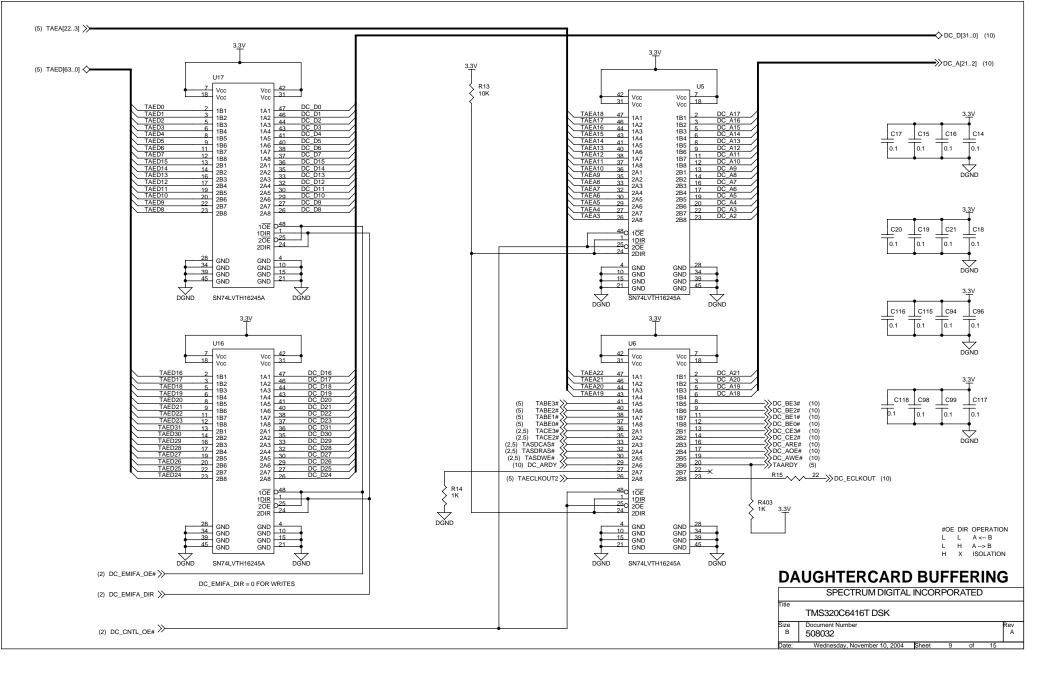


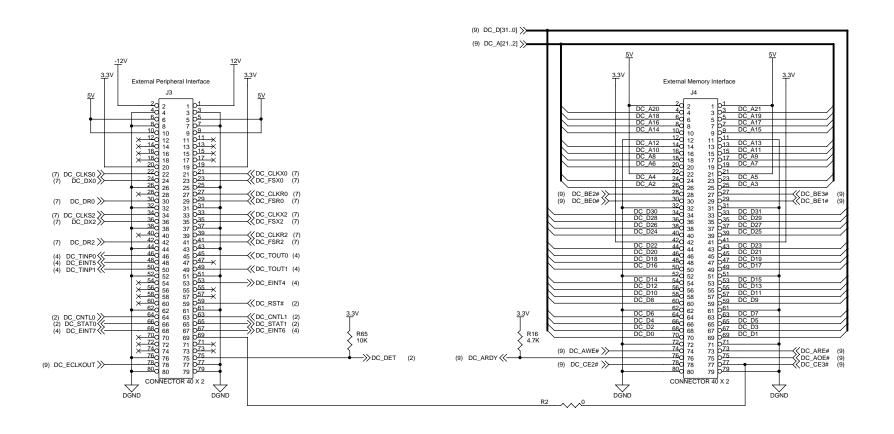


MCBSP

	SPECTRUM DIGITAL INCORPORATED									
Title	TMS320C6416T DSK									
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Date:	Wednesday, November 10, 2004	Sheet	7	of	15	•				







DAUGHTERCARD I/F

	SPECTRUM DIGITAL I	NCORF	ORAT	ED		
Title	TMS320C6416T DSK					
Size B	Document Number 508032					Rev A
Date:	Wednesday, November 10, 2004	Sheet	10	of	15	

