Texas Instruments Incorporated

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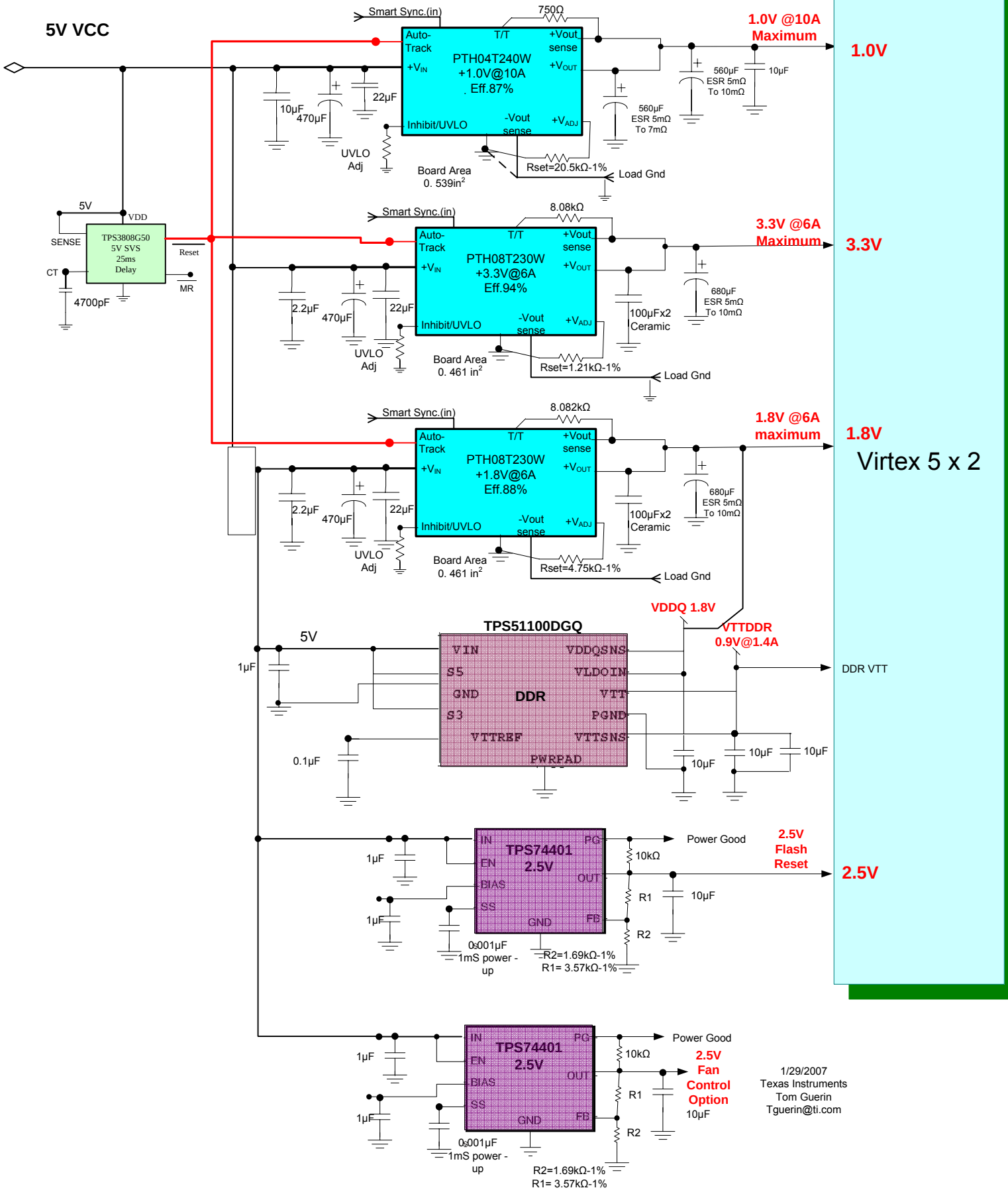
Virtex 5 Reference Design
5V Input Bus Design.



1/29/2007
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Virtex 5 Reference Design
5V Input Bus Design.
BOM

	Virtex 5 BOM 1/26/2007		
	Component		
Component #	Function	Quantity	Vendor
PTH04T240W	1.0V Power Source (10A) 5V to 1.0V power regulator) Core	1	Texas Instruments
PTH08T230W	3.3V Power Source (6A) 5V to 3.3V power regulator VDD	1	Texas Instruments
PTH08T230W	1.8V Power Source (6A) 5V to 1.8V power regulator VDDQ	1	Texas Instruments
TPS51100DGQ	DDR Power converter Discrete solution 0.9V VTT 5V to 0.9V	1	Texas Instruments
TPS74401	2.5V Flash reset Power device 5V to 2.5V	1	Texas Instruments
TPS74401	2.5V Fan Power device 5V to 2.5V	1	Texas Instruments
TPS3808G50	5V SVS Supervisor	1	Texas Instruments
Input capacitors	470µF x3 (6.3V or greater polymer)	3	Misc. vendors
Input capacitors	Ceramics (22µF x3, 6.3V) (10µF x2 10V-16V)(2,.2µF x2 10-16V)	6	Misc. vendors
Misc Input capacitor	Ceramics (22µF x3, 6.3V) (10µF x210V-16V)(2,.2µF x2 10-16V)	8	Misc. vendors
Output capacitors	560µF x1,> 2.0V) Polymer ESR 5-7mΩ: (680 µF x2)ESR 5-7mΩ	4	Misc. vendors
Output capacitor	Ceramics , 100µF,6.3V, x4::0µF, 6.3V x5::	9	Misc. vendors
Capacitor SVS	Ceramic 6.3V 4700pF	1	Misc. vendors
Misc. Resistors	1% for Voltage RSET and Turbo trans (RTT)	6	Misc. vendors
TPS74401 Resistors	1% for Vset and Power good	6	Misc. vendors

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