



Title 3A Core/3A IO Controller--Based	
Solution for Cyclone/Stratix/Stratix GX	
Size	Number
B	PR342
Date	08/09/04
Filename	pr342.sch
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Filename: PR342_bom.xls					
Date: 08/19/2004					
		PR342 BOM			
COUNT	RefDes	Description	Size	MFR	Part Number
1	C1	Capacitor, Ceramic, 0.1-uF, 25-V, X5R, 10%	603	muRata	GRM188R71E104KA01
1	C2	Capacitor, Ceramic, 1.0-uF, 10-V, X5R, 10%	603	muRata	GRM188R61A105KA61
2	C3, C4	Capacitor, Ceramic, 22-uF, 10-V, X5R, 10%	1210	muRata	GRM32ER61A226KA65
2	C5, C6	Capacitor, Ceramic, 10-pF, 50-V, C0G, 5%	603	TDK	C1608C0G1H100D
4	C7, C8, C9, C10	Capacitor, Tantalum, 100-uF, 10-V, 80-milliohm, 20%	7343 (D)	Vishay	593D107X0010D2T35
2	D1, D2	Diode, Schottky, 3.0A, 20V	SMC	Vishay	SS32
2	L1, L2	Inductor, High Current, SMT, 4.7-uH, 5.4-A, 18-milliohm	0.510 x 0.370	Vishay	IDC-5020NB4R7M
2	Q1, Q2	MOSFET, P-ch, -12V,-7.6-A, 31-milliohm	1206-8	Siliconix	Si5475DC
1	R1	Resistor, Chip, 187k-Ohms, 1/16-W, 1%	603	Std	Std
1	R2	Resistor, Chip, 60.4k-Ohms, 1/16-W, 1%	603	Std	Std
1	R3	Resistor, Chip, 22.6k-Ohms, 1/16-W, 1%	603	Std	Std
2	R4, R5	Resistor, Chip, 0.02-Ohms, 1/4-W, 1%	1210	Std	Std
1	R6	Resistor, Chip, 23.7k-Ohms, 1/16-W, 1%	603	Std	Std
2	R7, R9	Resistor, Chip, 100k-Ohms, 1/16-W, 1%	603	Std	Std
1	R8	Resistor, Chip, 174k-Ohms, 1/16-W, 1%	603	Std	Std
1	U1	IC, Voltage Supervisor, Micropower	SO-8	TI	TLC7701ID
2	U2, U3	IC, Step-Down Controller	SOT23-6	TI	TPS64203DBV

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