



Title 3A Core/1.5A IO LDO/Controller-based			
Solution for Cyclone/Stratix/Stratix GX			
Size	Number	PR341	Rev
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Date: 08/19/2004					
PR341 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
1	C3	Capacitor, Ceramic, 22-uF, 10-V, X5R, 10%	1210	muRata	GRM32ER61A226KA65
2	C4, C5	Capacitor, Ceramic, 10-uF, 6.3-V, X5R, 10%	805	muRata	GRM21BR60J106KE01
1	C6	Capacitor, Ceramic, 10-pF, 50-V, C0G, 5%	603	TDK	C1608C0G1H100D
2	C7, C8	Capacitor, Tantalum, 100-uF, 10-V, 80-milliohm, 20%	7343 (D)	Vishay	593D107X0010D2T35
1	D1	Diode, Schottky, 3.0A, 20V	SMC	Vishay	SS32
1	L1	Inductor, High Current, SMT, 4.7-uH, 5.4-A, 18-milliohm	0.510 x 0.370	Vishay	IDC-5020NB4R7M
1	Q1	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
1	R4	Resistor, Chip, 0.02-Ohms, 1/4-W, 1%	1210	Std	Std
1	R5	Resistor, Chip, 23.7k-Ohms, 1/16-W, 1%	603	Std	Std
1	R6	Resistor, Chip, 100k-Ohms, 1/16-W, 1%	603	Std	Std
1	U1	IC, Voltage Supervisor, Micropower	35630	TI	TLC7701QD
1	U2	IC, Step-Down Controller	SOT23-6	TI	TPS64203DBV
1	U3	IC, Ultra Low-Noise, High PSRR, Fast RF 1.5A LDO Linear Regulator	DDPAK-5	TI	TPS78633KTT

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