



Title		15A Core/15A I/O Controller-based	
Solution		Solution for Stratrix II	
Size	Number	PR355	Rev
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Date: 08/20/2004					
PR355 BOM					
COUNT	RefDes	Description	Size	MFR	Part Number
4	C1, C2, C3, C4	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	1210	MuRata	GRM31CR61C106KC43
1	C10	Capacitor, Ceramic, 0.022-uF, 50-V, X7R, 10%	805	muRata	GRM188R71E223KA01
5	C11, C12, C13, C14, C15	Capacitor, Aluminum, 270-uF, 2-V, 20% (UE Series)	7343	Panasonic	EEFUE0D271R
1	C16	Capacitor, Ceramic, 2200-pF, 50-V, C0G, 5%	805	MuRata	GRM1885C1H222JA01
2	C17, C31	Capacitor, Ceramic, 1.0-uF, 16-V, X5R, 10%	805	TDK	C2012X5R1C105KT
1	C18	Capacitor, Ceramic, 68-pF, 50-V, C0G, 10%	805	muRata	GRM1885C1H680JA01
2	C19, C34	Capacitor, Ceramic, 4700-pF, 50-V, X7R, 10%	805	MuRata	GRM216R71H472KA01
2	C20, C21	Capacitor, Ceramic, 22uF, 16V, X5R, 20%	1812	TDK	C4532X5R1C226MT
1	C27	Capacitor, Ceramic, 0.01-uF, 50-V, X7R, 10%	805	muRata	GRM188R71E103KA01
2	C28, C29	Capacitor, POSCAP, 470-uF, 4-V, 10-milliohm, 20%	7343 (D)	Sanyo	4TPD470M
1	C30	Capacitor, Ceramic, 47uF, 6.3V, X5R, 20%	1812	TDK	C4532X5R0J47MT
1	C32	Capacitor, Ceramic, 5600-pF, 50-V, X7R, 10%	805	Vishay	VJ0805Y562KXAAT
6	C5, C8, C9, C22, C25, C26	Capacitor, Ceramic, 0.1-uF, 25-V, X7R, 10%	805	Vishay	VJ0805Y104KXXAT
2	C6, C23	Capacitor, Ceramic, 100-pF, 50-V, NPO, 10%	805	Vishay	VJ0805A101KXAAT
3	C7, C24, C33	Capacitor, Ceramic, 470-pF, 50-V, X7R, 10%	805	Vishay	VJ0805Y471KXAAT
2	D1, D3	Diode, Switching, 10-mA, 85-V, 350-mW	SOT23	Vishay-Liteon	BAS16
2	D2, D4	Diode, Schottky, 3-A, 40-V	SMC	IR	30BQ040
1	L1	Inductor, SMT, 2.2-uH, 20-A, 4.2-milliohm	0.51 x 0.51	Vishay	IHLP-5050EZ-01 2.2uH
1	L2	Inductor, SMT, 1.7-uH, 22.3-A, 1.8-milliohms	0.512 X 0.512	Coiltronics	HC1-1R7
2	Q1, Q3	Mosfet, N-Ch, Vds 30V, Rds 6 miliohms, Id 30A	LFPAK	Hitachi	HAT2168H
2	Q2, Q4	Mosfet, N-Ch, Vds 30V, Rds 4.2 miliohms, Id 40A	LFPAK	Hitachi	HAT2167H
1	R1	Resistor, Chip, 49.9k-Ohms, 1/10-W, 1%	805	Std	Std
1	R10	Resistor, Chip, 243k-Ohms, 1/10-W, 1%	805	Std	Std
1	R11	Resistor, Chip, 71.5k-Ohms, 1/10-W, 1%	805	Std	Std
1	R12	Resistor, Chip, 165k-Ohms, 1/10-W, 1%	805	Std	Std
1	R14	Resistor, Chip, 8.66k-Ohms, 1/10-W, 1%	805	Std	Std
1	R15	Resistor, Chip, 2.32k-Ohms, 1/10-W, 1%	805	Std	Std
1	R16	Resistor, Chip, 226-Ohms, 1/10-W, 1%	805	Std	Std
1	R2	Resistor, Chip, 590k-Ohms, 1/10-W, 1%	805	Std	Std
1	R3	Resistor, Chip, 150k-Ohms, 1/10-W, 1%	805	Std	Std

1	R4	Resistor, Chip, 348k-Ohms, 1/10-W, 1%	805	Std	Std
1	R5	Resistor, Chip, 22.1k-Ohms, 1/10-W, 1%	805	Std	Std
2	R6, R13	Resistor, Chip, 10k-Ohms, 1/10-W, 1%	805	Std	Std
1	R7	Resistor, Chip, 14k-Ohms, 1/10-W, 1%	805	Std	Std
1	R8	Resistor, Chip, 301-Ohms, 1/10-W, 1%	805	Std	Std
1	R9	Resistor, Chip, 16.2k-Ohms, 1/10-W, 1%	805	Std	Std
2	U1, U2	IC, Wide Input Synchronous Buck Controller, 10-40 V Input	PWP16	TI	TPS40055PWP

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