



- NOTES:**
1. USE 101-0201-00A PCB.
  2. CAUTION: CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD)
  3. LO INPUT CAN BE DIFFERENTIAL OR SINGLE ENDED (INA/INB)
  4. WITH SINGLE ENDED LO INPUT, NO TERMINATION IS NEEDED ON UNUSED PORT.
  5. PINS 16 AND 17 ARE INTERNALLY DISCONNECTED.

CONTRACT NO.		<b>PEREGRINE SEMICONDUCTOR</b> 9380 Carroll Park Drive San Diego, CA 92121			
DRAWN	DATE				
JEFF LUNDY	4-20-09	<b>PE4150 EK PCB SCHEMATIC &amp; BOM</b>			
ENGINEER	DATE				
ARMANDO GUINAND	4-20-09	SIZE	CAGE CODE	DWG NO.	REV
CHECKED	DATE	B		102-0396	02
APPROVED	DATE	SCALE:	DATE	Sheet 1 of 1	
ISSUED	DATE				

**PEREGRINE SEMICONDUCTOR CORPORATION**  
**PE4150 EK PCB SCHEMATIC & BOM Revised: Monday, April 20, 2009**  
**Bill Of Materials**

Item	Quantity	Reference	Value	Description	Manufacturer	Manufacturer Part Number	Distributor	Distributor Part Number	Data Sheet	Notes
1	2	C1,C4	10pF	PAN SMD Capacitor, Ceramic, 10pF, 50V, NP0, ±5%, 0402	Panasonic - ECG	ECJ-0EC1H100D	Digi-Key	PCC100CQCT-ND	<a href="http://industrial.panasonic.com/www-data/pdf/ABJ0000/ABJ0000CE1.pdf">http://industrial.panasonic.com/www-data/pdf/ABJ0000/ABJ0000CE1.pdf</a>	
2	2	C2,C5	0.01µF	PAN SMD Capacitor, Ceramic, 0.01µF, 16V, X7R, ±10%, 0402	Panasonic - ECG	ECJ-0EB1C103K	Digi-Key	PCC103BQTR-ND	<a href="http://industrial.panasonic.com/www-data/pdf/ABJ0000/ABJ0000CE1.pdf">http://industrial.panasonic.com/www-data/pdf/ABJ0000/ABJ0000CE1.pdf</a>	
3	1	C3	10µF	PAN SMD Capacitor, Ceramic, 10µF, 6.3V, X5R, ±20%, 0603	Panasonic - ECG	ECJ-1VB0J106M	Digi-Key	PCC2395TR-ND	<a href="http://www.panasonic.com/industrial/components/pdf/ABJ0000CE4.pdf">http://www.panasonic.com/industrial/components/pdf/ABJ0000CE4.pdf</a>	
4	2	C6,C7	51pF	AVX SMD Capacitor, Ceramic, 51pF, 100V, C0G (NP0), ±5%, 0603	AVX Corporation	06031A510JAT2A	Digi-Key	478-3695-2-ND	<a href="http://www.avxcorp.com/docs/Catalogs/ccog.pdf">http://www.avxcorp.com/docs/Catalogs/ccog.pdf</a>	
5	4	J1,J2,J3,J4	DNI	SMA 500 END LAUNCH JACK RECEPTACLE-ROUND CONTACT	Johnson Components Inc.	142-0701-801	Digi-Key	J502-ND	<a href="http://rocky.digikey.com/WebLib/Johnson%20Components/Web%20Data/142-0701-801.%20142-0701-806.pdf">http://rocky.digikey.com/WebLib/Johnson%20Components/Web%20Data/142-0701-801.%20142-0701-806.pdf</a>	DO NOT INSTALL
6	3	J5,J6,J7	SMASM	SMA 500 END LAUNCH JACK RECEPTACLE-ROUND CONTACT	Johnson Components Inc.	142-0701-801	Digi-Key	J502-ND	<a href="http://rocky.digikey.com/WebLib/Johnson%20Components/Web%20Data/142-0701-801.%20142-0701-806.pdf">http://rocky.digikey.com/WebLib/Johnson%20Components/Web%20Data/142-0701-801.%20142-0701-806.pdf</a>	DO NOT INSTALL
7	2	J8,J10	DNI	CONN HEADER .100 SINGLE STR 36POS	Sullins Electronics Corp.	PZC36SAAN	Digi-Key	S1011-36-ND	<a href="http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36SAAN.PDF">http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36SAAN.PDF</a>	DO NOT INSTALL
8	1	J9	CON3	CONN HEADER .100 SINGLE STR 36POS	Sullins Electronics Corp.	PZC36SAAN	Digi-Key	S1011-36-ND	<a href="http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36SAAN.PDF">http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36SAAN.PDF</a>	Cut to 3 Pin Header .100
9	1	J11	HEADER 2	CONN HEADER, W/ FRIC LCK, 2POS, .100 VERT TIN	Molex/Waldom Electronics Corp.	22-23-2021	Digi-Key	WM4200-ND	<a href="http://www.molex.com/product/pcb/6373.pdf">http://www.molex.com/product/pcb/6373.pdf</a>	
10	4	MTG1,MTG2,MTG3,MTG4	T POINT A							
11	5	R3,R4,R12,R17,R22	0 OHM	Xicon SMD Thick Film Chip Resistor, 0 Ohm, 1/16W, ±5%, RoHs, 0603	Xicon	301-0-RC	Mouser Electronics	301-0-RC	<a href="http://www.mouser.com/catalog/specsheets/XC-600033.pdf">http://www.mouser.com/catalog/specsheets/XC-600033.pdf</a>	
12	18	R1,R2,R5,R6,R8,R9,R10, R11,R13,R14,R16,R18,R19, R20,R21,R23,R24,R25	DNI	PAN SMD Resistor, Thick Film, 0603	Panasonic - ECG		Digi-Key			
13	2	R7,R15	51 Ohm	PAN SMD Resistor, Thick Film, 51 Ohm, 1/10W, ±5%, 0603	Panasonic - ECG	ERJ-3GEYJ510V	Digi-Key	P51GTR-ND	<a href="http://www.panasonic.com/industrial/components/pdf/AA0000CE1.pdf">http://www.panasonic.com/industrial/components/pdf/AA0000CE1.pdf</a>	
14	2	T2,T3	ETK4-2T	E SERIES RF 1:4 TRANSMISSION LINE STEP UP TRANSFORMER	M/A COM	ETK4-2T	M/A COM	ETK4-2T	<a href="http://www.macom.com/datasheets/etk4-2t%20rev%20d.pdf">http://www.macom.com/datasheets/etk4-2t%20rev%20d.pdf</a>	
15	1	U1	MLPQ4X4							
16	1	101-0201-00A		Prescaler Mixer EK						