

TITLE: Bill of Materials									
DESIGN: pc3203m5									
BUILD ISSUE: 01-06									
DATE: 10/18/2006									
NO. OF BOARDS REQD: 4									
Line No.	Part Number	Part Description	Ref Des	Board Qty	Build Qty	Use Exact Part	Use Equiv. Part	Equivalent Part Number	Comments
1	Farnell 499-353	10nF X7R 50V Capacitor, 1206	C1,C2	2	8				-
2	-	100nF SMD Capacitor, 0402, X5R Dielectric, 10V	C110-C125,C127,C128,C131-C155,C500,C518,C531	46	184				-
3	-	10nF SMD Capacitor, 0402, X7R Dielectric, 16V	C126,C229,C230,C247,C253,C260,C261,C284-C300,C305,C307,C309,C319,C365-C376,C398,C399,C401,C402,C406,C408,C411,C412,C432,C433,C437,C438,C445,C446,C448,C449,C460,C462,C463,C468,C471-C474,C492-C499,C501-C503	75	300				-
4	-	10nF SMD Capacitor, 0603, X7R Dielectric, 25V	C177,C577	2	8				-
5	AVX-KYOCERA TPSC476K010R0350	47uF SMD 10V Low ESR Capacitor, Case Size C	C17-C21,C25,C26,C28,C29,C33-C36,C38-C44,C47-C72,C74-C79,C82-C87,C90-C94,C96	64	256				Available from FARNELL 570-369
6	-	1nF SMD Capacitor, 0402, X7R Dielectric, 50V	C180-C183,C196,C197,C200,C201,C209-C214,C217,C218,C221-C224,C236-C239,C246,C248-C250,C256-C259,C262,C263,C268,C269,C272-C275,C314-C317,C320-C323,C328-C333,C336-C341,C345,C346,C348,C349,C352,C353,C355-C357,C359-C363,C378,C392,C396,C400,C403,C404,C409,C410,C417,C419,C423,C434,C439,C447,C450,C451	90	360				-
7	-	15pF Miniature Ceramic Plate Capacitor,Low K, 100V	C22,C23	2	8				-
8	AVX-KYOCERA TAJC686K010R	68uF SMD 10V Tantalum Capacitor, Case Size C	C27	1	4				Available from FARNELL 197-178
9	TDK CC1206AY5V106ZTR	10uF SMD 10V Capacitor, 1206	C3	1	4				-
10	-	22nF SMD Capacitor, 0402, X7R Dielectric, 16V	C304,C306,C308,C318	4	16				-
11	-	22uF SMD Tantalum Capacitor, Case Size C, 16V	C4	1	4				-
12	AVX-KYOCERA TPSE477K010R0050	470uF SMD 10V Low ESR Capacitor, Case Size E	C45,C46,C73	3	12				Available from FARNELL 301-8532
13	-	100nF SMD Capacitor, 0805, X7R Dielectric, 50V	C5,C104,C105,C245,C303,C347,C459,C477,C520,C526,C530,C555-C557,C575	15	60				-
14	RS 264-4321	1nF SMD Capacitor, 0805, COG Dielectric, 50V	C522,C523	2	8				-
15	-	1nF SMD Capacitor, 0603, X7R Dielectric, 50V	C533,C535,C537,C539,C540,C543,C545,C547,C549,C560,C562,C564,C566,C568,C570,C572,C574	17	68				-
16	-	10uF SMD Tantalum Capacitor,Low ESR, Case Size A, 10V	C6,C30,C37	3	12				-
17	AVX-KYOCERA TAJD106K025R	10uF SMD 25V Capacitor, Case Size D	C7,C8,C10-C16,C24,C81,C89,C97	13	52				Available from FARNELL 498-890
18	AVX-KYOCERA TAJD226K016R	22uF SMD 16V Capacitor, Case Size D	C80,C88,C95	3	12				Available from FARNELL 498-749

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19	-	100nF SMD Capacitor, 0603, X7R Dielectric, 16V	C9,C31,C32,C99-C103,C106-C109,C129,C130,C156 C176,C178,C179,C184-C195,C198,C199,C202- C208,C215,C216,C219,C220,C225-C228,C231- C235,C240,C242- C244,C251,C252,C254,C255,C264- C267,C270,C271,C276-C283,C301,C302,C310- C312,C324-C327,C334,C335,C342- C344,C350,C351,C354,C358,C364,C377,C379- C391,C393-C395,C397,C405,C407,C413- C416,C418,C420-C422,C424- C431,C435,C436,C440-C444,C452- C458,C461,C464- C467,C469,C470,C475,C476,C478-C491,C504- C517,C519,C521,C524,C525,C527- C529,C532,C534,C536,C538,C541,C542,C544,C54 6,C548,C550- C554,C558,C559,C561,C563,C565,C567,C569,C57 1,C573,C576	230	920		-
20	Farnell 912-967	1000uF 16V Axial Electrolytic	C98	1	4		-
21	AMP 352171-1	95 Pin (5x19), B Type, Z-Pack Right Angle Socket, 2mm Pitch	CON1-CON4,CON6,CON7	6	24		-
22	AMP 352069-1	125 Pin (5x25), B Type, Z-Pack Right Angle Socket, 2mm Pitch	CON5,CON8	2	8		-
23	AMP 100752-1	Z-Pack 2mm Hard Metric PCB Rtang connector Housing	CON9	1	4		Also order 2x AMP 100090-1 & 1x 100092-1 (Power contacts)
24	Farnell 365-117	1N4001, General Purpose Diode	D1	1	4		-
25	Temec LL4148	LL4148, General Purpose Diode	D2,D3	2	8		Available from Farnell 739-182
26	Newport 11ACB25112E	Passive Unbuffered 10-Tap, 25ns Step Delay Line	DL1,DL2	2	8		Available from Farnell 176-532
27	Schroff 69004-266	Low Current Yellow 3.2mm LED	DS1	1	4		-
28	RS 309-5067	Bi-Level Red/Red 2.0mm LED	DS12	1	4		-
29	Rohm SML-210VTT86	Surface Mount Red LED, 0805	DS13	1	4		Available from RS 429-546
30	RS 309-5073	Bi-Level Green/Green 2.0mm LED	DS2,DS3,DS5-DS7	5	20		-
31	RS 309-5089	Bi-Level Yellow/Yellow 2.0mm LED	DS4,DS8-DS11	5	20		-
32	Farnell 514-950	7A Wire Ended Fuse	FS1	1	4		-
33	Farnell 319-314	3A Wire Ended Fuse	FS2	1	4		-
34	Farnell 319-326	5A Wire Ended Fuse	FS3	1	4		-
35	Farnell 514-962	10A Wire Ended Fuse	FS4	1	4		-
36	AMP 223979-1	Female backplane guide module	GM1	1	4		-
37	Meggitt Sigma BMB-2A-1000L-N2	Ferrite Bead Inductor	L1-L3	3	12		Available from Farnell 323-7989
38	Farnell 175-319	2 pin 0.4 inch pitch Jumper	LK6,LK10,LK11,LK13,LK20-LK25	10	40		-
39	Molex 87333-1420	JTAG-ISP-P4 Right Angle PTH	PL1	1	4		Available from Farnell 747-2218
40	Harwin M20-999 02 05	Harwin Straight 2 pin Header	PL2,PL4,PL5	3	12		Can be cut from M20-999 36 05
41	Molex 87331-1420	Molex Straight 2mm pitch 2x7 pin Header, PTH	PL3	1	4		-
42	3M 2520-6002UN	20way Vertical IDC Header	PL6	1	4		-
43	Farnell 613-095	1K0 SMD Resistor, 0.1W, 0805	R1,R2,R121,R122,R153,R186	6	24		-
44	Farnell 543-068	47R Resistor, 0.25W	R111	1	4		-
45	Farnell 509-048	100R Resistor, 0.25W, 250V	R112-R114	3	12		-

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46	Rohm MCR03EZJ101	100R SMD Resistor, 0.1W, 0603	R115,R116,R177	3	12		-
47	Farnell 613-459	1M0 SMD Resistor, 0.1W, 0805	R117-R120	4	16		-
48	Farnell 194-888	56R SMD Resistor, 0.063W, 0402	R125	1	4		-
49	Rohm MCR03EZPF102	1K0 SMD Resistor, 0.063W, 0603	R135	1	4		-
50	Farnell 194-876	47R SMD Resistor, 0.063W, 0402	R138	1	4		-
51	Farnell 612-765	220K SMD Resistor, 0.063W, 0603	R150,R152,R154,R157-R159,R164-R166,R176	10	40		-
52	Farnell 911-355	10K SMD Resistor, 0.063W, 0603	R168-R175	8	32		-
53	Rohm MCR03EZJ102	1K0 SMD Resistor, 0.1W, 0603	R17,R131-R134,R136,R149,R155,R156,R179-R181	12	48		-
54	Farnell 771-259	200R SMD Resistor, 0.1W, 0805	R18	1	4		-
55	Farnell 613-290	47K SMD Resistor, 0.1W, 0805	R19,R26	2	8		-
56	Farnell 613-216	10K SMD Resistor, 0.1W, 0805	R20-R22	3	12		-
57	Farnell 613-022	270R SMD Resistor, 0.1W, 0805	R23	1	4		-
58	Rohm MCR03EZJ472	4K7 SMD Resistor, 0.1W, 0603	R24,R137,R140-R145,R151,R160,R161,R167	12	48		-
59	Farnell 357-1294	130R SMD Resistor, 0.063W, 0603	R25,R27,R123,R127,R129,R139,R147,R163,R185	9	36		-
60	Farnell 911-100	82R SMD Resistor, 0.063W, 0603	R28,R124,R126,R128,R146,R148,R162,R178,R184	9	36		-
61	Farnell 194-918	100R SMD Resistor, 0.063W, 0402,5%	R29-R73,R75-R110	81	324		-
62	Farnell 612-388	150R SMD Resistor, 0.063W, 0603	R3,R182,R183	3	12		-
63	Rohm MCR03EZJ301	300R SMD Resistor, 0.1W, 0603	R4,R5,R7-R16	12	48		-
64	Rohm MCR03EZJ221	220R SMD Resistor, 0.1W, 0603	R6	1	4		-
65	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805	R74,R130	2	8		-
66	Farnell 776-660	220R, ARC241, 4-isolated Resistors, 0.062W	RN1,RN2	2	8		-
67	Farnell 776-701	1K, ARC241, 4-isolated Resistors, 0.062W	RN3,RN19,RN20,RN22,RN23,RN34	6	24		-
68	Farnell 325-7460	4K7,0804 Package, 4-isolated Resistors, 0.063W	RN4-RN8,RN13-RN18,RN27-RN33	18	72		-
69	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W	RN9-RN12,RN21,RN24-RN26	8	32		-
70	Farnell 9352643	1K0, 3266W Variable Resistor, 0.25W	RV1	1	4		-
71	RS 177-481	10k, SMT Multiturn Pot, 0.25mW	RV2	1	4		-
72	3M 10268-55G3JL	68way .050 Mini D Ribbon (MDR) Connector Rt-Angle	SK1,SK2	2	8		-
73	RS 467-879	9way Rt-Ang PCB D-Type Socket	SK3	1	4		-
74	Samtec QSH-030-01-L-D-A	2x30pin SMT Double Row Connector, QSH Series	SK4,SK5	2	8		-
75	Farnell 607-460	SPST Right-Angle Momentary Switch	SW1	1	4		-
76	Oxley SMOX/060/B1LP	Surface Mount Test Point Ball	TP1-TP5,TP7-TP17,TP19-TP25,TP29	24	96		-
77	Farnell 9846670	Low Noise General Purpose NPN Transistor	TR1	1	4		-
78	LM35DZ	LM35DZ Temperature sensor	TR2,TR3	2	8		-
79	Molex 55358-5029	50pin System Ace Compact Flash Socket with Eject Mechanism	U1	1	4		Also order Eject Mechanism Molex 55364-0011
80	Sipex SP232ECN	Enhanced RS-232 Line Driver/Receiver	U14	1	4		-
81	TI SN74F08D	SMD Quad 2-input Positive AND Gate	U15-U17	3	12		-
82	Maxim MAX1668MEE	Multi-channel Remote Temperature Sensor	U18	1	4		-
83	Fairchild 74LVT245WM	Low Voltage Octal Bidirectional Transceivers with 3-State I/O	U2,U41,U42,U48,U58-U60,U64-U66,U72,U77,U78	13	52		Available from Farnell 325-2565
84	TI SN74LS123D	SMD Dual Monostable	U20,U31,U32,U34,U36	5	20		-
85	Fairchild 74LCX14M	Low Voltage Hex Schmitt-Trigger Inverters	U3,U19,U37	3	12		Available from Farnell 111-922
86	TI SN74F38D	Quad 2 Input NAND Buffer	U30	1	4		-
87	FUJITSU MB90F594GPF/G	Dual Can Bus F2MC-16LX Micro Processor	U33	1	4		-

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88	Farnell 639-564	4MHz Surface Mount Crystal Oscillator	U35	1	4		-
89	Cypress CY74FCT157CTSOC	Quad 2 Input Multiplexer	U38	1	4		-
90	Hewlett Packard HDMP-1022	TTL Gigabit Rate Transmitter	U39,U40	2	8		-
91	Infineon V23818-M305-B57	SFP Multimode 850nm 2.125Gbit/s Fibre Channel, 1.25 Gigabit Ethernet Transceiver with LC Connector	U4,U5	2	8		Also order Molex 73927-0009 and Tyco 1367073-1
92	Xilinx XCCACE-TQ144I	System ACE Controller	U43	1	4		-
93	Xilinx XCV1000E-6-FGA860C	Xilinx FPGA CMM Service	U44	1	4		-
94	NSC SCAN92LV090VEH	9 Channel Bus LVDS Transceiver, With Boundary SCAN	U45,U47,U49-U51,U55,U56,U62,U63	9	36		-
95	Farnell 571-830	40MHz Crystal Clock Oscillator, Universal Output	U46,U67	2	8		-
96	IDT 74FCT244ASO	Fast CMOS Octal Buffer/line Driver	U52	1	4		-
97	Cypress CY7B991V-2JC	LV Programmable Skew Clock Buffer	U54	1	4		-
98	Xilinx XCV1000E-6-FGA860C	Xilinx FPGA CMM Core	U61	1	4		-
99	Xilinx XCV100E-6FG256C	Xilinx High Performance FPGA	U68	1	4		-
100	Philips 74HCT244D	Fast CMOS Octal Buffer/line Driver, 3-state	U69	1	4		-
101	NSC DS90LV047ATM	3V LVDS Quad CMOS Differential line Driver	U6-U13,U21-U29	17	68		-
102	Xilinx XCR3384XL-10FT256C	Xilinx CoolRunner XPLA3 CPLD	U70,U71	2	8		-
103	Fairchild 74LVT574WM	Low Voltage Octal D-Type Flip-Flop, 3-state	U73,U74,U79	3	12		Available from Farnell 325-2668
104	Maxim MAX9321BESA	Differential PECL/ECL/LVPECL/LVECL Receiver/Driver	U75	1	4		Also Available from ON Semiconductor MC10EP16D
105	PHILIPS PCA82C250T	PHILIPS PCA82C250 CAN Controller Interface	U76	1	4		-
106	Linear Tech. LT1584CT	Adjustable 7A +ve Voltage Regulator	VR1	1	4		Also order Heat Sink
107	LT1084CT	Linear Tech LT1084CT 5Amp LDO Adjustable Voltage Regulator TO-220	VR2	1	4		Available from FARNELL 412-338,Order also Heat Sink
108	LT1584CT-3.3	3.3V, 7A +ve Voltage Regulator	VR3	1	4		Also Order Heat Sink
109	PC3203M/5	PC Board	-	1	4		-
110	Triple E Corp FP-X9-X4-D1-DT-B-IC (See comments)	9U x 4HP Blank Front Panel with DT type handles and EMC gasket	-	1	4		For detail see drawing A2-TE-0073-069-01-* Triple E contact Paul Wade (pwade@tripleease.com)
111	-	Stiffening Bar	-	3	12		For detail see drawing A2-TE-0116-005-01-*
112	RS 526-928	M2.5 x 6 mm Slotted Panhead Screws	-	12	48		For assembly of stiffening bars. See assembly notes.
113	Wakefield 62435ABT4	Heatsinks for U39 and U40	-	2	8		-
114	Farnell 707351	Heatsinks for VR1, VR2 and VR3	-	3	12		-
115	Farnell 520214	Insulating kit for Farnell 707351 (above)	-	3	12		-
116	Farnell 758670	M3 x 12 panhead with washer to mount Farnell 707351	-	3	12		-
117	Farnell 7108163	M3 self lock nut to mount Farnell 707351	-	3	12		-