

TITLE: Bill of Materials									
DESIGN: pc3405m1									
BUILD ISSUE: PROVISIONAL									
DATE: 07/30/2008									
NO. OF BOARDS REQD: 1									
Line No.	Part Number	Part Description	Ref Des	Board Qty	Build Qty	Use Exact Part	Use Equiv. Part	Equivalent Part Number	Comments
1	AVX-KYOCERA CM21X7R474K16AT	470nF SMD Capacitor, 0805, 16V, 10%	C1,C5,C8,C9,C23	5					Available from Farnell 1216552
2	-	10nF SMD Capacitor, 0603, X7R Dielectric, 25V, 10%	C15,C16,C22,C24,C47,C52,C54,C56,C59,C61,C63,C66,C69,C76-C78,C81,C89,C90,C101-C105,C108,C111,C114,C117,C120,C123,C127,C129,C132,C135,C139,C143,C146,C154,C155,C160,C161,C164,C167,C193-C202,C205-C214,C217-C226,C229-C238,C241,C242,C245,C250,C251,C256,C257,C260,C263,C266,C267,C269-C272	98					-
3	Farnell 9418369	1000uF 16V Axial Electrolytic, 20%	C180	1					-
4	AVX TAJD477K006R	470uF SMD 6.3V Capacitor, Case Size D, 10%	C182,C184	2					-
5	-	100nF SMD Capacitor, 0805, X7R Dielectric, 50V, 10%	C188-C192	5					-
6	Farnell 1216538	100nF SMD Capacitor, 0603, X7R Dielectric, 16V, 10%	C2,C10-C14,C17-C21,C25,C43,C45,C46,C50,C51,C55,C58,C60,C62,C65,C68,C73-C75,C80,C84-C88,C96-C100,C107,C110,C113,C116,C119,C122,C125,C128,C131,C134,C138,C142,C145,C148,C152,C153,C158,C159,C163,C166,C168-C179,C181,C183,C185-C187,C203,C204,C215,C216,C227,C228,C239,C240,C244,C248,C249,C254,C255,C259,C262,C265,C268	91					-
7	AVX-KYOCERA TPSC476K010R0350	47uF SMD 10V Low ESR Capacitor, Case Size C, 10%	C26-C29	4					Available from FARNELL 570-369
8	Farnell 9406115	100pF SMD Capacitor, 0603, 50V, 5%	C3,C4,C7	3					-
9	AVX TPSA106K010R1800	10uF SMD Tantalum Capacitor,Low ESR, Case Size A, 10V, 10%	C30-C37,C39-C42	12					Available from Farnell 1135105
10	AVX 1210ZC4700JAT2A	4.7uF X7R 10V +/-5% SMD Capacitor, 1210	C38,C44,C48,C49,C53,C57,C64,C67,C70-C72,C79,C82,C83,C91-C95,C106,C109,C112,C115,C118,C121,C124,C126,C130,C133,C136,C137,C140,C141,C144,C147,C149-C151,C156,C157,C162,C165,C243,C246,C247,C252,C253,C258,C261,C264	50					-
11	AVX-KYOCERA CM21X7R334K16AT	330nF SMD Capacitor, 0805, 16V, 10%	C6	1					Available from Farnell 1216551
12	Agilent Technologies HSMG-C170	Surface Mount Green LED, 0805	DS1-DS3	3					Available from Farnell 5790852
13	Farnell 1003209	Low Current Green 3mm LED	DS4	1					-
14	Littelfuse 154010.DR	10A SMD Fuse in Holder, 154 Series	FS1,FS3	2					-
15	Littelfuse 154005.DR	5A SMD Fuse in Holder, 154 Series	FS2	1					Available from Farnell 9943668, RoHS Compliant
16	Harwin M20-999 09 45	Harwin Straight 9 pin Header	J4A	1					Can be cut from M20-999 36 05
17	Harwin M20-998 07 45	Straight 0.1 inch pitch 2x7 pin Header, PTH	J4B	1					-
18	Harwin M20-999 03 45	Harwin Straight 3 pin Header	LK1,LK2,LK10,LK13,LK14,LK19-LK23	10					Can be cut from M20-999 36 05
19	Harwin M20-998 03 45	Harwin Straight 2x3 pin Header	LK11	1					-
20	Harwin M20-9980245	Harwin Straight 2x2 pin Header	LK12,LK15-LK18,LK24	6					-
21	Farnell 175-319	2 pin 0.4 inch pitch Jumper	LK29-LK32	4					-

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22	Harwin M20-999 02 45	Harwin Straight 2 pin Header, 0.1 inch pitch	LK3,LK4,LK7,LK9,LK25-LK28	8				Can be cut from M20-999 36 05
23	Harwin M20-998 05 45	Harwin Straight 2x5 pin Header	LK5,LK6	2				-
24	Harwin M20-9980645	Harwin 0.1 inch pitch 2x6 pin Vertical Header	LK8	1				-
25	Harwin M20-9990845	Straight, Single Row PTH 8 pin Header, 0.1 inch pitch	PL1-PL3,PL6	4				-
26	Harwin M20-9982545	0.1 inch Pitch 2x25 DIL Header	PL4	1				-
27	Harwin M20-998 10 45	Harwin Straight 2x10 pin Header	PL5	1				-
28	Farnell 9330399	10K SMD Resistor, 0.063W, 0603, 1%	R1,R3,R10,R73,R107,R111-R115,R168,R170,R204,R206,R240,R242,R276,R278,R283,R308,R326-R329	24				-
29	Farnell 9331247	4K7 SMD Resistor, 0.063W, 0603, 1%	R12,R127-R129,R156,R157,R159,R160,R162,R163,R165,R166,R192,R193,R195,R196,R198,R199,R201,R202,R228,R229,R231,R232,R234,R235,R237,R238,R264,R265,R267,R268,R270,R271,R273,R274,R297,R310,R311,R313,R314	41				-
30	Farnell 9331239	470R SMD Resistor, 0.063W, 0603, 1%	R121,R123	2				-
31	Farnell 9331018	330R SMD Resistor, 0.063W, 0603, 1%	R122	1				-
32	Farnell 9238301	33R SMD Resistor, 0.063W, 0603, 1%	R13,R15	2				-
33	Farnell 9330402	100K SMD Resistor, 0.063W, 0603, 1%	R130,R131,R158,R161,R164,R167,R194,R197,R200,R203,R230,R233,R236,R239,R266,R269,R272,R275,R312,R315	20				-
34	Farnell 9331450	6K8 SMD Resistor, 0.063W, 0603, 1%	R169,R171,R205,R207,R241,R243,R277,R279,R309	9				-
35	Farnell 9238360	100R SMD Resistor, 0.063W, 0603, 1%	R19,R20,R32,R43,R46,R48,R68,R105,R106,R108,R124,R152-R155,R188-R191,R224-R227,R260-R263,R288,R316,R317	30				-
36	Farnell 9331662	0R0 SMD Resistor, 0.063W, 0603, 1%	R2,R4-R6,R8,R11,R14,R16-R18,R27,R29,R31,R37-R39,R41,R42,R44,R58,R61-R63,R65-R67,R69-R72,R75-R77,R80-R89,R96,R99,R102,R116-R120,R126,R132-R151,R172-R187,R208-R223,R244-R259,R280-R282,R284-R287,R290-R296,R300-R307,R318-R325	150				-
37	Farnell 9330380	1K0 SMD Resistor, 0.063W, 0603, 1%	R21,R24-R26,R28,R30,R40,R50-R53,R57,R59,R60,R64,R78,R79,R93,R94,R97,R101,R104,R125,R289,R298,R299	26				-
38	Farnell 9331255	47K SMD Resistor, 0.063W, 0603, 1%	R22,R23,R92,R95	4				-
39	Farnell 9331336	51R SMD Resistor, 0.063W, 0603, 1%	R33-R36,R98	5				-
40	Farnell 9330810	2K2 SMD Resistor, 0.063W, 0603, 1%	R54-R56,R103,R109	5				-
41	Farnell 9330828	22K SMD Resistor, 0.063W, 0603, 1%	R7,R45,R47,R49,R100	5				-
42	Farnell 9331131	390R SMD Resistor, 0.063W, 0603, 1%	R74,R90,R91,R110	4				-
43	Farnell 9330801	220R SMD Resistor, 0.063W, 0603, 1%	R9	1				-
44	Farnell 9234977	39R, ARC241, 4-isolated Resistors, 0.062W, 5%	RN1	1				-
45	Farnell 9234845	4K7, ARC242, 4-isolated Resistors, 0.062W, 1%	RN2,RN3	2				-
46	Phoenix Contact 1803345	Right Angle PCB 9-pin Terminal Block, 3.81mm pitch	SK12	1				Available from Farnell 3704786
47	Lemo EPG.00.302.NNN	Lemo Socket, 00 Series, 2Pole	SK19	1				-
48	RS 414-1379	SMA PCB Straight Mounting Jack	SK1-SK6,SK15-SK18,SK20-SK27,SK32,SK33	20				-

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49	RS 437-5522	9way Rt-Ang PCB D-Type Socket	SK7	1				-
50	Lemo EPY.00.250.NTN	Lemo Rt-Angle Double Socket, 00 Series	SK8,SK10,SK11,SK13,SK14,SK28,SK30,SK34	8				-
51	Molex 047151-1101	HDMI Receptacle Type A	SK9,SK37-SK44	9				-
52	Erg SCS-2-023	2way Triple Inline Switch SPDT, Spectra C - 023 Style	SW1	1				Available from Farnell 422769
53	ERG16-412/2	Sealed PCB Mount Vert Rotary Hex Switch	SW2	1				Available from Farnell 1203416
54	Vero 20-2137D	Black 1.02mm Test Point	TP1,TP2	2				-
55	Vero 20-313142D	Green 1.32mm Test Point	TP3-TP6	4				-
56	NSC DS90LV018ATM	3V LVDS Single CMOS Differential line Receiver	U1	1				-
57	NSC DS90LV110ATMT	1 to 10 LVDS Data/Clock Distributor with Failsafe	U10,U11,U22,U36	4				-
58	Philips 74LVT244AD	3-State Low Voltage Octal Buffer	U12,U47,U61	3				Available from RS 197-6920
59	ON Semiconductor MC10H124FN	Quad TTL to MECL Translator	U13,U48	2				-
60	Motorola MC10192FN	Quad Bus Driver	U14,U49	2				-
61	Philips 74LVT125D	3.3V Quad Buffer, Tri-State O/P	U2,U8	2				-
62	NSC DS90LV001TM	3V3 LVDS-LVDS Buffer	U20,U21,U24,U26	4				-
63	NSC DS90LV028ATM	3V LVDS Dual CMOS Differential line Receiver	U25	1				-
64	ON Semiconductor MC10H125FN	Quad MECL to TTL Translator	U3,U31	2				-
65	NSC DS90LV048ATM	3V LVDS Quad CMOS Differential line Receiver	U30,U40,U41,U51,U52	5				-
66	Philips 74LVT240D	3.3V ABT Octal Inverting Buffer (3-State)	U32	1				-
67	Philips 74LVT08D	Low Voltage Quad 2-input AND Gate	U33,U38	2				-
68	Philips 74LV541D	3-state Octal Buffer/Line Driver	U34,U42,U43,U53,U54	5				-
69	NSC DS90LV017ATM	3V LVDS Single High Speed Differential line Driver	U35	1				-
70	Philips 74LV11D	3.3V, Triple 3-input AND gate	U37	1				-
71	Philips 74LVT10D	3.3V, Triple 3-input NAND gate	U4	1				-
72	Philips 74LVT20D	Dual 4-Input NAND Gate	U44	1				-
73	Philips 74LVT02D	Quad 2-input NOR gate	U45	1				-
74	ICS ICS581G-02	Zero-Delay Glitch Free Clock Multiplexer	U5	1				-
75	TI SN74F38D	Quad 2 Input NAND Buffer	U50	1				-
76	VFAC3 A H L 100.0M	100MHz SMT Oscillator, 3.3V, +/-25ppm	U6	1				-
77	Maxim MAX232ACSE+	+5V Multichannel RS232 Driver/Receiver	U60	1				Available from RS 622-7835
78	Xilinx XCR3128XL-7TQ144C	Xilinx CoolRunner 128 Macrocell CPLD	U62	1				-
79	Philips 74LVT04D	Low Voltage Hex Invertors (3V3)	U63	1				-
80	Philips 74LVT74D	SMD Dual D-Type Positive-Edge Trigger Flip-Flops	U7	1				-
81	NSC DS90LV027ATM	LVDS Dual High-Speed Differential Driver	U9,U23,U46,U55	4				-