

TITLE: BILL OF MATERIALS									
DESIGN: pc3462m1									
BOM VERSION:									
DATE: 04/08/2011									
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	Phycomp CC0603KRX7R8BB103	10nF SMD Capacitor, 0603, X7R Dielectric, 25V, 10%	C1,C2,C10,C12,C13,C24,C25	7					Available from FARNELL 3019561
2	Farnell 8819742	100nF SMD Capacitor, 0402, X7R Dielectric, 16V, 10%	C14-C17,C20,C21,C26-C31	12					-
3	Farnell 721-980	15pF NPO Capacitor, 0603, 50V, 5%	C18,C19,C32-C35,C53,C56,C65,C66,C68,C69,C94,C97,C98,C100,C110-C113,C122,C125-C127,C137,C139-C141,C150,C153-C155,C165,C167-C169	36					-
4	AVX 08056C106KAT2A	10uF X7R 6.3V 10% SMD Capacitor, 0805	C182,C184	2					Available from Farnell 1657936
5	AVX TPSA106K010R1800	10uF SMD Tantalum Capacitor,Low ESR, Case Size A, 10V, 10%	C185	1					Available from Farnell 1135105
6	Farnell 9406115	100pF SMD Capacitor, 0603, 50V, 5%	C22,C23,C36-C39,C59,C60,C71-C74,C82,C102-C105,C116-C119,C130-C133,C144-C147,C158-C161,C172-C175	37					-
7	Farnell 1216538	100nF SMD Capacitor, 0603, X7R Dielectric, 16V, 10%	C3-C9,C11,C40-C45,C51,C52,C54,C55,C57,C58,C61-C64,C67,C70,C75-C77,C85-C90,C92,C93,C95,C96,C99,C101,C106-C109,C114,C115,C120,C121,C123,C124,C128,C129,C134-C136,C138,C142,C143,C148,C149,C151,C152,C156,C157,C162-C164,C166,C170,C171,C176-C181,C183	78					-
8	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B, 10%	C46-C50	5					Available from FARNELL 498-725
9	AVX TAJD226K025R	100uF SMD 25V Capacitor, Case Size D, 10%	C78	1					Available from Farnell 197-520
10	Kemet C1210C106K3RAC	10uF X7R 25V 10% SMD Capacitor, 1210	C79,C80	2					Available from Farnell 1358512
11	Murata GRM1885C1H102JA01D	1nF SMD Capacitor, 0603, CGO, 50V, 5%	C81	1					Available from FARNELL 8819920
12	Kemet C1206C107M9PAC	100uF SMD Capacitor, 1206, X5R Dielectric, 6.3V, 20%	C83	1					Available from Farnell 1358552
13	AVX TPME477M010R0023	470uF SMD 10V Tantalum Ultra Low ESR Capacitor, Case Size E, 20%	C84	1					-
14	AVX-KYOCERA TPME477K010R0030	470uF SMD 10V Low ESR Capacitor, Case Size E, 10%	C91	1					Available from FARNELL 1135203
15	Dialight Corporation 5988110107F	Surface Mount Red LED, 0805	DS1	1					Available from Farnell 1465992
16	Agilent Technologies HSMG-C170	Surface Mount Green LED, 0805	DS2-DS4	3					Available from Farnell 5790852
17	HSMR-C120	Surface Mount Blue LED, C120 Side emitter	DS5	1					-
18	HSME-C120	Surface Mount Green LED, C120 Side emitter	DS6	1					-
19	Farnell 175-319	2 pin 0.4 inch pitch Jumper	LK5-LK8	4					-
20	Harwin M20-999 02 45	Harwin Straight 2 pin Header, 0.1 inch pitch	PL1-PL7	7					Can be cut from M20-999 36 05
21	Tyco Electronics 1469265-2	Universal power module right-angle male guide pin, keyed 45 degrees	PL8	1					-
22	ERNI 204781	30-Pair (60 Pins) Differential Rt-Angle Male Connector With Grounds (30)	PL9,PL10	2					Press-fit component

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23	Farnell 9331662	0R0 SMD Resistor, 0.063W, 0603, 1%	R1,R2,R7,R9,R11,R13,R15,R17,R19,R69,R71,R73,R75,R77,R79,R81,R155,R157,R159,R270,R310,R312,R313,R315,R317,R318	26				-
24	Rohm MCR03EZJH332	3K3 SMD Resistor, 0.1W, 0603, 5%	R133	1				-
25	Farnell 9331018	330R SMD Resistor, 0.063W, 0603, 1%	R134	1				-
26	Farnell 9331255	47K SMD Resistor, 0.063W, 0603, 1%	R135	1				-
27	Farnell 9330984	30K SMD Resistor, 0.063W, 0603, 1%	R136,R137	2				-
28	Rohm MCR03EZJH103	10K SMD Resistor, 0.1W, 0603, 5%	R138-R143,R145-R150,R154,R156,R158,R160,R309,R311,R314,R316	20				-
29	Tyco RN73C1J22K1BTG	22K1 SMD Resistor, 0.1%, 0603	R144	1				Available from Farnell 1140588
30	Farnell 9331336	51R SMD Resistor, 0.063W, 0603, 1%	R151	1				-
31	Farnell 9330755	200R SMD Resistor, 0.063W, 0603, 1%	R152,R153	2				-
32	Rohm MCR03EZJH472	4K7 SMD Resistor, 0.1W, 0603, 5%	R24,R26,R84,R86,R87,R89,R105,R107,R115,R117,R118,R120,R163,R165,R168,R170,R181,R183,R184,R186,R199,R201,R204,R206,R217,R219,R220,R222,R235,R237,R240,R242,R253,R255,R256,R258	36				-
33	Farnell 9331913	2K2 SMD Resistor, 0.063W, 0603, 5%	R25,R85,R88,R106,R116,R119,R164,R169,R182,R185,R200,R205,R218,R221,R236,R241,R254,R257	18				-
34	Farnell 9331360	56K SMD Resistor, 0.063W, 0603, 1%	R27,R28,R90-R93,R108,R109,R121-R124,R166,R167,R171,R172,R187-R190,R202,R203,R207,R208,R223-R226,R238,R239,R243,R244,R259-R262	36				-
35	Farnell 1140388	33R SMD Resistor, 0.1W, 0603, 0.1%	R3,R5,R30,R31	4				-
36	Farnell 9232702	330R SMD Resistor, 0.063W, 0402, 5%	R32-R34,R36,R38,R40-R66,R132	33				-
37	Rohm MCR03EZJH101	100R SMD Resistor, 0.1W, 0603, 5%	R4,R20,R21,R37,R67,R82,R83,R96,R97,R100,R101,R104,R111,R113,R114,R127,R128,R161,R162,R175,R176,R179,R180,R193,R194,R197,R198,R211,R212,R215,R216,R229,R230,R233,R234,R247,R248,R251,R252,R265,R266,R269,R273	43				-
38	Rohm MCR03EZJH102	1K0 SMD Resistor, 0.1W, 0603, 5%	R6,R8,R10,R12,R14,R16,R18,R22,R23,R29,R35,R39,R68,R70,R72,R74,R76,R78,R80,R94,R95,R98,R99,R102,R103,R110,R112,R125,R126,R129-R131,R173,R174,R177,R178,R191,R192,R195,R196,R209,R210,R213,R214,R227,R228,R231,R232,R245,R246,R249,R250,R263,R264,R267,R268,R271,R272	58				-
39	Stewart SS-60000-009	RJ45 Jack, Shielded, Category 6	SK2	1				Available from Farnell 1572188
40	TYCO 6116317-2	RJ45 Stacked Modular Jack Assembly, 2x8 with LEDs, 8 Position	SK4	1				-
41	Grayhill 78B02T	2way DIL Slide Switch	SW1	1				Available from Farnell 9479031
42	Schroff 20849-209	Microswitch for AdvancedMC Modules	SW2	1				-
43	Vero 20-313140K	Yellow 1.02mm Test Point	TP1-TP4,TP7,TP8,TP10-TP18,TP20-TP23	19				Available from Farnell 8731187
44	Vero 20-2137D	Black 1.02mm Test Point	TP5,TP19,TP24	3				Available from Farnell 8731128
45	Vero 20-313137D	Red 1.02mm Test Point	TP6	1				Available from Farnell 8731144
46	Vero 20-313143A	White 1.32mm Test Point	TP9	1				-
47	Fairchild NC7SZ04M5X	Tinylogic UHS Inverter	U1	1				Available from Onecall 3457886
48	NSC DS90LV027ATM	LVDS Dual High-Speed Differential Driver	U10	1				-
49	TI SN74LVC1G06DCK	Single Inverter Buffer/Driver with Open-Drain Output	U11,U31	2				-

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50	Texas SN65LVDS116DGG	16-Port LVDS Repeater	U12,U17	2					-
51	IDT ICS580M-01	Glitch Free Clock Multiplexer	U14	1					-
52	9.0278 MHz XOPL91050UCTA	9.0278MHz XOPL91 Programmable SMD Oscillator	U15	1					-
53	ICS ICS581G-02	Zero-Delay Glitch Free Clock Multiplexer	U16	1					-
54	NSC DS90LV001TM	3V3 LVDS-LVDS Buffer	U2,U7,U9,U13,U18-U29,U36-U58	39					-
55	ICS ICS527R-01LF	Clock Slicer User Configurable Zero Delay Buffer	U3	1					-
56	TI SN74LVC1G34DBVT	Single Buffer Gate	U30	1					-
57	NXP PCF8574AT	8-Bit I/O Expander	U32	1					Available from Farnell 1201333
58	Linear Technology LTM4600EV#PBF	10A High Efficiency DC/DC uModule	U33	1					
59	Atmel AT24C32C-TH	2-Wire Serial EEPROM 32K	U34	1					-
60	National Semiconductor LM75AIM	Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	U35	1					-
61	NSC DS90LV018ATM	3V LVDS Single CMOS Differential line Receiver	U4,U6	2					-
62	TI SN74LVC2G86DCUT	Dual 2-Input Exclusive-OR Gate	U5	1					-
63	STP16CP05MTR	Low voltage 16-bit constant current LED sink driver	U59,U60	2					-
64	Data Delay Devices 3D3225Z-10	Monolithic 5-Tap Fixed Delay Line, 10nS Steps	U8	1					-
65	PC3462M	XFEL CC Pre-Prototype B PCB	-	1					-