

TITLE: BILL OF MATERIALS									
DESIGN: PC3462M1									
BOM VERSION: 1									
DATE: 18/07/2011			Please read comments column						
NO. OF BOARDS REQD: 4			All components should be RoHS Compliant						
Line No.	Part Number	Part Description	Ref Des	Board Qty	Build Qty	Use Exact Part	Use Equiv. Part	Equivalent Part Number	Comments
1	Farnell 1216538	100nF SMD Capacitor, 0603, X7R Dielectric, 16V, 10%	C1,C2,C9,C10,C28-C35,C52-C61,C63,C65,C66,C75,C78,C79,C81-C85,C87,C88,C90-C93,C97,C100-C117,C134-C149,C178,C179,C184-C188	81	324				-
2	Farnell 721-980	15pF NPO Capacitor, 0603, 50V, 5%	C118-C133,C150-C165,C180-C183	36	144				-
3	Farnell 8819742	100nF SMD Capacitor, 0402, X7R Dielectric, 16V, 10%	C166-C177	12	48				-
4	Farnell 9406115	100pF SMD Capacitor, 0603, 50V, 5%	C3-C6,C11-C26,C36-C51,C96	37	148				-
5	Phycomp CC0603KRX7R8BB103	10nF SMD Capacitor, 0603, X7R Dielectric, 25V, 10%	C62,C64,C69,C72-C74,C80	7	28				Available from FARNELL 3019561
6	AVX 08056C106KAT2A	10uF X7R 6.3V 10% SMD Capacitor, 0805	C67,C68	2	8				Available from Farnell 1657936
7	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B, 10%	C7,C8,C27,C70,C71	5	20				Available from FARNELL 498-725
8	AVX TPME477M010R0023	470uF SMD 10V Tantalum Ultra Low ESR Capacitor, Case Size E, 20%	C76	1	4				-
9	AVX TPSA106K010R1800	10uF SMD Tantalum Capacitor,Low ESR, Case Size A, 10V, 10%	C77	1	4				Available from Farnell 1135105
10	Kemet C1206C107M9PAC	100uF SMD Capacitor, 1206, X5R Dielectric, 6.3V, 20%	C86	1	4				Available from Farnell 1358552
11	Kemet C1210C106K3RAC	10uF X7R 25V 10% SMD Capacitor, 1210	C89,C94	2	8				Available from Farnell 1358512
12	Murata GRM1885C1H102JA01D	1nF SMD Capacitor, 0603, CGO, 50V, 5%	C95	1	4				Available from FARNELL 8819920
13	AVX-KYOCERA TPME477K010R0030	470uF SMD 10V Low ESR Capacitor, Case Size E, 10%	C98	1	4				Available from FARNELL 1135203
14	AVX TPME107K020R0035	100uF SMD 20V Tantalum Ultra Low ESR Capacitor, Case Size E, 10%	C99	1	4				-
15	Dialight Corporation 5988110107F	Surface Mount Red LED, 0805	DS1	1	4				Available from Farnell 1465992
16	Agilent Technologies HSMG-C170	Surface Mount Green LED, 0805	DS2-DS4	3	12				Available from Farnell 5790852
17	HSMR-C120	Surface Mount Blue LED, C120 Side emitter	DS5	1	4				-
18	HSME-C120	Surface Mount Green LED, C120 Side emitter	DS6	1	4				-
19	Farnell 175-319	2 pin 0.4 inch pitch Jumper	LK2-LK5	4	16				-
20	Harwin M20-8770842	8-way, vertical, SMD, 1x8 header, 2.54 mm pitch	PL1	1	4				-
21	Tyco Electronics 1469265-2	Universal power module right-angle male guide pin, keyed 45 degrees	PL10	1	4				-
22	TE Connectivity 6469183-1	30-Pair (60 Pins) Differential Rt-Angle Male Connector With Grounds (30)	PL11,PL12	2	8				Press-fit component, Available from Digi-key 6469183-1-ND
23	Harwin M20-999 02 45	Harwin Straight 2 pin Header, 0.1 inch pitch	PL2-PL8	7	28				Can be cut from M20-999 36 05
24	Harwin M20-999 03 45	Harwin Straight 3 pin Header	PL9	1	4				Can be cut from M20-999 36 05
25	Rohm MCR03EZJH102	1K0 SMD Resistor, 0.1W, 0603, 5%	R1,R2,R13-R16,R19-R22,R25-R34,R67-R82,R123-R139,R154,R165,R191,R199,R200	58	232				-
26	Farnell 9331913	2K2 SMD Resistor, 0.063W, 0603, 5%	R11,R12,R59-R66,R115-R122	18	72				-
27	Farnell 1140388	33R SMD Resistor, 0.1W, 0603, 0.1%	R149,R150,R155,R156	4	16				-
28	Farnell 9331662	0R0 SMD Resistor, 0.063W, 0603, 1%	R152,R153,R186-R189,R193-R198,R233-R246	26	104				-
29	Rohm MCR03EZJH103	10K SMD Resistor, 0.1W, 0603, 5%	R157-R163,R166-R172,R180-R185	20	80				-
30	Multicomp MGRF1WJ0106A10	10M Axial Resistor, 1W, 5%, 3500V, MGRF Series	R164,R177	2	8				Available from Farnell 1357961

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31	Farnell 9331255	47K SMD Resistor, 0.063W, 0603, 1%	R173	1	4			-
32	Farnell 9330984	30K SMD Resistor, 0.063W, 0603, 1%	R174,R178	2	8			-
33	Rohm MCR03EZJH332	3K3 SMD Resistor, 0.1W, 0603, 5%	R175	1	4			-
34	Tyco RN73C1J22K1BTG	22K1 SMD Resistor, 0.1%, 0603	R179	1	4			Available from Farnell 1140588
35	Farnell 9331018	330R SMD Resistor, 0.063W, 0603, 1%	R190	1	4			-
36	Farnell 9232702	330R SMD Resistor, 0.063W, 0402, 5%	R192,R254-R285	33	132			-
37	Farnell 9331360	56K SMD Resistor, 0.063W, 0603, 1%	R201-R232,R247-R250	36	144			-
38	Farnell 9331336	51R SMD Resistor, 0.063W, 0603, 1%	R251	1	4			-
39	Farnell 9330755	200R SMD Resistor, 0.063W, 0603, 1%	R252,R253	2	8			-
40	Rohm MCR03EZJH101	100R SMD Resistor, 0.1W, 0603, 5%	R3-R6,R17,R18,R23,R24,R35-R42,R83-R98,R140-R148,R151,R176	43	172			-
41	Rohm MCR03EZJH472	4K7 SMD Resistor, 0.1W, 0603, 5%	R7-R10,R43-R58,R99-R114	36	144			-
42	TYCO 6116317-5	RJ45 Stacked Modular Jack Assembly, 2x8 with Green/Yellow LEDS, 8 Position	SK1	1	4			-
43	Amphenol FRJAE-408	RJ45 Modular Jack, 1 port, non-shielded	SK2	1	4			Available from Farnell 1860593
44	Schroff 20849-209	Microswitch for AdvancedMC Modules	SW1	1	4			-
45	Grayhill 78B02T	2way DIL Slide Switch	SW2	1	4			Available from Farnell 9479031
46	Vero 20-313140K	Yellow 1.02mm Test Point	TP1-TP4,TP7-TP21	19	76			Available from Farnell 8731187
47	Vero 20-2136J	Black 1.32mm Test Point	TP5,TP6,TP22-TP25	6	24			-
48	NSC DS90LV001TM	3V3 LVDS-LVDS Buffer	U1,U2,U5-U23,U44-U61	39	156			-
49	NSC DS90LV027ATM	LVDS Dual High-Speed Differential Driver	U24	1	4			-
50	STP16CP05MTR	Low voltage 16-bit constant current LED sink driver	U25,U28	2	8			-
51	NSC DS90LV018ATM	3V LVDS Single CMOS Differential line Receiver	U26,U38	2	8			-
52	ICS ICS527R-01LF	Clock Slicer User Configurable Zero Delay Buffer	U27	1	4			-
53	ICS ICS581G-02	Zero-Delay Glitch Free Clock Multiplexer	U29	1	4			-
54	Texas SN65LVDS116DGG	16-Port LVDS Repeater	U3,U4	2	8			-
55	IDT ICS580M-01	Glitch Free Clock Multiplexer	U30	1	4			-
56	9.0278 MHz XOPL91050UCTA	9.0278MHz XOPL91 Programmable SMD Oscillator	U31	1	4			-
57	TI SN74LVC74APW	SMD Dual D-Type Positive-Edge Trigger Flip-Flops	U32	1	4			-
58	NXP PCF8574AT	8-Bit I/O Expander	U33	1	4			Available from Farnell 1201333
59	TI SN74LVC1G06DCK	Single Inverter Buffer/Driver with Open-Drain Output	U34,U41	2	8			-
60	TI SN74LVC2G86DCUT	Dual 2-Input Exclusive-OR Gate	U35	1	4			-
61	Fairchild NC7SZ04M5X	Tinylogic UHS Inverter	U36	1	4			Available from Onecall 3457886
62	TI SN74LVC1G34DBVT	Single Buffer Gate	U37	1	4			-
63	Data Delay Devices 3D3225Z-10	Monolithic 5-Tap Fixed Delay Line, 10nS Steps	U39	1	4			-
64	Linear Technology LTM4600EV#PBF	10A High Efficiency DC/DC uModule	U40	1	4			
65	Atmel AT24C32D-XHM-B	2-Wire Serial EEPROM 32K	U42	1	4			-
66	Analog Devices ADT75ARZ	12-bit digital temperature sensor, 1 degC	U43	1	4			Available from Farnell 1117116
67	PC3462M/1	XFEL CC RTM Prototype PCB	-	1	4			-