

TITLE: Bill of Materials									
DESIGN: PC3405M1									
BOM VERSION:1									
DATE: 27/08/2008									
NO. OF BOARDS REQD: 10		PLEASE READ COMMENTS COLUMN							
Line No.	Part Number	Part Description	Ref Des	Board Qty	Build Qty	Use Exact Part	Use Equiv. Part	Equivalent Part Number	Comments
1	AVX TAJD477K006R	470uF SMD 6.3V Capacitor, Case Size D, 10%	C131,C132	2	20				-
2	-	100nF SMD Capacitor, 0805, X7R Dielectric, 50V, 10%	C133,C134,C137,C151,C152	5	50				-
3	Farnell 9418369	1000uF 16V Axial Electrolytic, 20%	C135	1	10				-
4	Farnell 9406115	100pF SMD Capacitor, 0603, 50V, 5%	C197,C220,C221,C242	4	40				-
5	-	10nF SMD Capacitor, 0603, X7R Dielectric, 25V, 10%	C1-C32,C34,C35,C37,C40,C42,C44,C46,C48,C140-C146,C148,C149,C153,C157,C160,C161,C165,C167,C170-C172,C176,C178-C180,C183,C185,C187,C188,C191,C194,C196,C199,C201,C202,C207,C210,C212-C214,C217,C218,C226,C227,C230,C231,C233,C236,C239-C241,C245,C246,C250,C251,C254,C255,C261,C268,C269,C271,C275,C279-C282	103	1030				-
6	AVX-KYOCERA CM21X7R334K16AT	330nF SMD Capacitor, 0805, 16V, 10%	C200	1	10				Available from Farnell 1216551
7	Farnell 1216538	100nF SMD Capacitor, 0603, X7R Dielectric, 16V, 10%	C33,C36,C38,C39,C41,C43,C45,C47,C108-C110,C112,C113,C118,C119,C127-C130,C147,C150,C154-C156,C158,C159,C162-C164,C166,C168,C169,C173-C175,C177,C181,C182,C184,C186,C189,C190,C192,C193,C195,C198,C203-C205,C208,C209,C211,C215,C216,C219,C222-C225,C228,C229,C232,C235,C237,C238,C243,C244,C247-C249,C252,C253,C256-C260,C262-C267,C270,C272-C274,C276-C278,C283-C286	94	940				-
8	AVX TPSA106K010R1800	10uF SMD Tantalum Capacitor,Low ESR, Case Size A, 10V, 10%	C49,C50,C61,C76,C85,C103,C104,C122-C125,C138	12	120				Available from Farnell 1135105
9	AVX 1210ZC4700JAT2A	4.7uF X7R 10V +/-5% SMD Capacitor, 1210	C51-C54,C57-C60,C62,C65-C73,C75,C77-C82,C84,C87-C89,C91-C102,C105-C107,C111,C114-C117,C120,C121,C126,C136	53	530				-
10	AVX-KYOCERA TPSC476K010R0350	47uF SMD 10V Low ESR Capacitor, Case Size C, 10%	C55,C56,C63,C64	4	40				Available from FARNELL 570-369
11	Farnell 722-042	47pF NPO Capacitor, 0603	C74,C234	2	20				-
12	AVX-KYOCERA CM21X7R474K16AT	470nF SMD Capacitor, 0805, 16V, 10%	C83,C86,C90,C139,C206	5	50				Available from Farnell 1216552
13	Data Delay Devices PDU16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing	DL1	1	10				RAL Free Issue
14	Agilent Technologies HSMY-C170	Surface Mount Yellow LED, 0805	DS1	1	10				Available from Farnell 5790876

TITLE: Bill of Materials								
DESIGN: PC3405M1								
BOM VERSION:1								
DATE: 27/08/2008								
NO. OF BOARDS REQD: 10		PLEASE READ COMMENTS COLUMN						
15	Agilent Technologies HSMS-C170	Surface Mount Red LED, 0805	DS2	1	10			Available from Farnell 5790839
16	Agilent Technologies HSMG-C170	Surface Mount Green LED, 0805	DS3-DS5	3	30			Available from Farnell 5790852
17	Littelfuse 154005.DR	5A SMD Fuse in Holder, 154 Series	FS1-FS3	3	30			Available from Farnell 9943668, RoHS Compliant
18	Harwin M20-999 09 45	Harwin Straight 9 pin Header	J1	1	10			Can be cut from M20-999 36 05
19	Harwin M20-998 07 45	Straight 0.1 inch pitch 2x7 pin Header, PTH	J2	1	10			-
20	Farnell 175-319	2 pin 0.4 inch pitch Jumper	LK1,LK2,LK26,LK28	4	40			-
21	Harwin M20-9980645	Harwin 0.1 inch pitch 2x6 pin Vertical Header	LK12	1	10			-
22	Harwin M20-999 03 45	Harwin Straight 3 pin Header	LK13-LK16,LK20-LK24,LK27	10	100			Can be cut from M20-999 36 05
23	Harwin M20-998 05 45	Harwin Straight 2x5 pin Header	LK17,LK18	2	20			-
24	Harwin M20-998 03 45	Harwin Straight 2x3 pin Header	LK3	1	10			-
25	Harwin M20-999 02 45	Harwin Straight 2 pin Header, 0.1 inch pitch	LK4-LK6,LK8-LK11,LK19	8	80			Can be cut from M20-999 36 05
26	Harwin M20-9980245	Harwin Straight 2x2 pin Header	LK7,LK25,LK29-LK32	6	60			-
27	Harwin M20-9990845	Straight, Single Row PTH 8 pin Header, 0.1 inch pitch	PL1-PL3,PL5	4	40			-
28	Harwin M20-9982545	0.1 inch Pitch 2x25 DIL Header	PL4	1	10			-
29	Harwin M20-998 10 45	Harwin Straight 2x10 pin Header	PL6	1	10			-
30	Farnell 9331255	47K SMD Resistor, 0.063W, 0603, 1%	R121,R122,R143,R144	4	40			-
31	Farnell 9331131	390R SMD Resistor, 0.063W, 0603, 1%	R137,R138,R203,R204	4	40			-
32	Farnell 9331336	51R SMD Resistor, 0.063W, 0603, 1%	R139,R156,R160,R164,R168	5	50			-
33	Farnell 9330828	22K SMD Resistor, 0.063W, 0603, 1%	R142,R154,R158,R162,R166	5	50			-
34	Farnell 9330810	2K2 SMD Resistor, 0.063W, 0603,1%	R146,R147,R150,R151,R207	5	50			-
35	Farnell 9330402	100K SMD Resistor, 0.063W, 0603, 1%	R169,R170,R173,R176,R179,R265-R280	21	210			-
36	Farnell 9331247	4K7 SMD Resistor, 0.063W, 0603, 1%	R17-R48,R77,R171,R172,R174,R175,R177,R178,R223,R230-R233	44	440			-
37	Farnell 9331239	470R SMD Resistor, 0.063W, 0603, 1%	R197,R199,R228	3	30			-
38	Farnell 9331018	330R SMD Resistor, 0.063W, 0603, 1%	R198	1	10			-
39	Farnell 9238360	100R SMD Resistor, 0.063W, 0603, 1%	R1-R16,R75,R76,R84,R93,R94,R107,R110-R115,R180-R182	31	310			-
40	Farnell 9330801	220R SMD Resistor, 0.063W, 0603, 1%	R220	1	10			-
41	Farnell 9330399	10K SMD Resistor, 0.063W, 0603,1%	R49,R51,R53,R55,R57,R59,R61,R63,R78-R83,R85,R88,R195,R213,R215,R219,R229,R260-R263	25	250			-
42	Farnell 9331450	6K8 SMD Resistor, 0.063W, 0603, 1%	R50,R52,R54,R56,R58,R60,R62,R64,R196	9	90			-

TITLE: Bill of Materials								
DESIGN: PC3405M1								
BOM VERSION:1								
DATE: 27/08/2008								
NO. OF BOARDS REQD: 10			PLEASE READ COMMENTS COLUMN					
43	Farnell 9331662	0R0 SMD Resistor, 0.063W, 0603, 1%	R65-R74,R86,R87,R89-R92,R97,R98,R100-R106,R108,R116,R117,R120,R123-R127,R129-R136,R140,R155,R159,R163,R167,R183-R194,R210-R212,R214,R216-R218,R221,R222,R225-R227,R234-R248,R250,R251,R253,R254,R256,R257,R259,R264,R281-R344	158	1580			-
44	Farnell 9238301	33R SMD Resistor, 0.063W, 0603, 1%	R95,R96	2	20			-
45	Farnell 9330380	1K0 SMD Resistor, 0.063W, 0603, 1%	R99,R109,R118,R119,R128,R141,R145,R148,R149,R152,R153,R157,R161,R165,R200-R202,R205,R206,R208,R209,R224,R249,R252,R255,R258	26	260			-
46	Farnell 9234977	39R, ARC241, 4-isolated Resistors, 0.062W, 5%	RN1	1	10			-
47	Farnell 9234845	4K7, ARC242, 4-isolated Resistors, 0.062W, 1%	RN2,RN3	2	20			-
48	Molex 047151-1101	HDMI Receptacle Type A	SK1-SK8,SK29	9	90			-
49	Phoenix Contact 1803345	Right Angle PCB 9-pin Terminal Block, 3.81mm pitch	SK30	1	10			Available from Farnell 3704786
50	RS 437-5522	9way Rt-Ang PCB D-Type Socket	SK31	1	10			-
51	Lemo EPG.00.302.NNN	Lemo Socket, 00 Series, 2Pole	SK32	1	10			-
52	Lemo EPY.00.250.NTN	Lemo Rt-Angle Double Socket, 00 Series	SK33-SK40	8	80			-
53	RS 414-1379	SMA PCB Straight Mounting Jack	SK9-SK28	20	200			-
54	ERG16-412/2	Sealed PCB Mount Vert Rotary Hex Switch	SW1	1	10			Available from Farnell 1203416
55	Erg SCS-2-023	2way Triple Inline Switch SPDT, Spectra C - 023 Style	SW2	1	10			Available from Farnell 422769
56	Vero 20-313142D	Green 1.32mm Test Point	TP1-TP3,TP6	4	40			-
57	Vero 20-2137D	Black 1.02mm Test Point	TP4,TP5	2	20			-
58	Philips 74LVT20D	Dual 4-Input NAND Gate	U10	1	10			-
59	NSC DS90LV110ATMT	1 to 10 LVDS Data/Clock Distributor with Failsafe	U11,U12,U18,U35	4	40			-
60	Philips 74LVT244AD	3-State Low Voltage Octal Buffer	U13,U16,U28	3	30			Available from RS 197-6920
61	Philips 74LVT02D	Quad 2-input NOR gate	U14	1	10			-
62	Philips 74LVT04D	Low Voltage Hex Invertors (3V3)	U15	1	10			-
63	TI SN74LS123D	SMD Dual Monostable	U17	1	10			-
64	Philips 74LVT08D	Low Voltage Quad 2-input AND Gate	U19,U29	2	20			-
65	NSC DS90LV048ATM	3V LVDS Quad CMOS Differential line Receiver	U1-U4,U39	5	50			-
66	NSC DS90LV027ATM	LVDS Dual High-Speed Differential Driver	U20,U26,U33,U38	4	40			-
67	Philips 74LVT74D	SMD Dual D-Type Positive-Edge Trigger Flip-Flops	U21,U37	2	20			-
68	NSC DS90LV017ATM	3V LVDS Single High Speed Differential line Driver	U22	1	10			-
69	Philips 74LV11D	3.3V, Triple 3-input AND gate	U23	1	10			-
70	NSC DS90LV001TM	3V3 LVDS-LVDS Buffer	U24,U34,U43,U44	4	40			-
71	NSC DS90LV028ATM	3V LVDS Dual CMOS Differential line Receiver	U25	1	10			-
72	Philips 74LVT125D	3.3V Quad Buffer, Tri-State O/P	U27,U40	2	20			-
73	ICS ICS581G-02	Zero-Delay Glitch Free Clock Multiplexer	U31	1	10			-
74	Golledge GXO-7531/AI 100MHz	100MHz SMT Oscillator, 3.3V, +/-25ppm	U32	1	10			-
75	Philips 74LVT10D	3.3V, Triple 3-input NAND gate	U36	1	10			-

TITLE: Bill of Materials									
DESIGN: PC3405M1									
BOM VERSION:1									
DATE: 27/08/2008									
NO. OF BOARDS REQD: 10		PLEASE READ COMMENTS COLUMN							
76	ON Semiconductor MC10H124FN	Quad TTL to MECL Translator	U41,U50	2	20				-
77	Philips 74LVT240D	3.3V ABT Octal Inverting Buffer (3-State)	U42	1	10				-
78	NSC DS90LV018ATM	3V LVDS Single CMOS Differential line Receiver	U45	1	10				-
79	TI SN74F38D	Quad 2 Input NAND Buffer	U46	1	10				-
80	ON Semiconductor MC10H125FN	Quad MECL to TTL Translator	U47,U49	2	20				-
81	Motorola MC10192FN	Quad Bus Driver	U48,U51	2	20				-
82	Maxim MAX232ACSE+	+5V Multichannel RS232 Driver/Receiver	U52	1	10				Available from RS 622-7835
83	Philips 74LV541D	3-state Octal Buffer/Line Driver	U5-U8,U30	5	50				-
84	Xilinx XCR3128XL-7TQ144C	Xilinx CoolRunner 128 Macrocell CPLD	U9	1	10				-
85	PC3405M/1	CALICE C&C Master PC Board	-	1	10				-