

			B2829_BOM_Order_List (3-in-1 Demonstrator)									
			University of Chicago									
			5620 S. Ellis Ave. Chicago IL 60637									
				Fukun Tang								
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				13-Feb-14								
Item#	Qty/Board	Ref#	Description	Geometry	INSTPAR	Digikey/Mouser	Board to Build (100)	EDG Inventory	Qty to Order	Unit Price(\$)	Sub Total (\$)	
1	1	U1	IC OPAMP VFB 250MHZ SGL 8-SOIC	soic8	OPA698ID	296-15860-5-ND	100	6	120	2.7945	\$335.34	
2	1	U3	IC OPAMP VFB 1GHZ SGL 8-SOIC	soic8	OPA699ID	296-15876-5-ND	100	6	120	2.8553	\$342.64	
3	2	U2, U4	IC OP AMP DIFF 204MHz 8-SOIC	soic8	THS4141CDG4-ND	THS4141CDG4-ND	200	13	350	2.6001	\$910.04	
4	1	U5	IC SWITCH DUAL SPDT 10MSOP	MSOP10	TSSA23160DGSR	296-18039-1-ND	100	15	120	0.6804	\$81.65	
5	3	U6, U7, U11	IC LINE RCVR LVDS QUAD 16-SOIC	soic16	DS90C032TMX/NOPB	DS90C032TMX/NOPB-ND	300	4070	0	1.9929	\$0.00	
6	2	U8, U30	IC OPAMP JFET 3MHZ SGL HS 8SOIC	soic8	LF411CD	296-12846-5-ND	200	1553	0	1.0062	\$0.00	
7	2	U9, U10	IC SWITCH QUAD SPST 16-SOIC	soic16	DG611DY-E3	DG611DY-E3-ND	200	13950	0	2.2079	\$0.00	
8	1	U12	IC DAC 12BIT VOUT W/REF TSOT23-8	soic_TS8	LTC2640ACTS8-HZ12	LTC2640ACTS8-HZ12#TRMPBF-ND	100	20	1000	2.58	\$2,580.00	
9	1	U13	IC DAC 12BIT VOUT W/REF TSOT23-8	soic_s8	LT1677CS8	LT1677CS8#PBF-ND	100	16	120	2.3	\$276.00	
10	1	D1	TVS ULT LOW CAP SOT-723	sot-723	ESD7L5.0DT5G	ESD7L5.0DT5GOSCT-ND	100	15	120	0.556	\$66.72	
11	2	L3, L6	INDUCTOR SHIELDED .1 UH 2% SMD	L1008	S1008-101G	S1008-101G	200	4200	0		\$0.00	
12	2	L1, L5	INDUCTOR SHIELDED .68 UH 2% SMD	L1008	S1008-681G	S1008-681G	200	475	0		\$0.00	
13	1	L4	INDUCTOR SHIELDED 1.5 UH 2% SMD	L1008	S1008-152G	S1008-152G	100	810	0		\$0.00	
14	1	L2	INDUCTOR SHIELDED 1.8 UH 2% SMD	L1008	S1008-182G	S1008-182G	100	890	0		\$0.00	
15	1	CC3	CAP CER 5.1PF 50V +/-0.1p NPO 0603	c0603	06031U5R1BAT4A	GRM1885C1H5R1BZ01D	100	0	8000	0.06125	\$490.00	
16	1	C8	CAP CER 6.8PF 50V NPO 0603	c0603	06035U6R8CAT2A	06035U6R8CAT2A	100	0	4000	0.1575	\$630.00	
17	1	C2	CAP CER 10PF 16V +/- 0.1p NPO 0603	c0603	0603YA100BAT2A	0603YA100BAT2A	100	0	8000	0.096	\$768.00	
18	1	C3	CAP CER 15PF 50V +/-0.25p NPO 0603	c0603	C0603C150C5GACTU	399-9002-2-ND	100	0	8000	0.096	\$768.00	
19	1	C5	CAP CER 18PF 50V +/-0.25p NPO 0603	c0603	C0603C180C5GACTU	399-9017-2-ND	100	0	8000	0.096	\$768.00	
20	1	C7	CAP CER 20PF 50V +/-0.25p NPO 0603	c0603	06035A200CAT2A	06035A200CAT2A	100	0	8000	0.096	\$768.00	
21	1	C6	CAP CER 82PF 50V 1% NPO 0603	c0603	GRM1885C1H820FA01D	GRM1885C1H820FA01D	100	0	8000	0.072	\$576.00	
22	2	C100, C137	CAP CER 100PF 50V 1% NPO 0603	c0603	06035A101FAT2A	478-6202-2-ND	200	0	4000	0.0215	\$86.00	
23	1	C4	CAP CER 120PF 50V 1% NPO 0603	c0603	CC0603FRNPO9BN121	CC0603FRNPO9BN121	100	0	8000	0.072	\$576.00	
24	1	CC2	CAP CER 200PF 50V 1% NPO 0603	c0603	06035A201FAT2A	478-6030-2-ND	100	0	4000	0.102	\$408.00	
25	0	No Use for This Item	CAP CER 91PF 100V 1% NPO 0603	c0603	06031U910FAT2A	06031U910FAT2A	100	0	8000	0.072	\$576.00	
26	7	C28, C30, C58, C60, C64, C78, CC0	CAP CER 1000PF 50V 5% NPO 0402	c0402	CGA2B2NP01H102J050BA	445-12118-2-ND	700	0	10000	0.0264	\$264.00	
27	20	C12, C13, C17, C19, C22, C23, C42, C43, C47, C49, C52, C53, C71, C73, C74, C76, C205, C206, C225, C245	CAP CER 0.01uF 25V 10% X7R 0402	c0402	C1005X7R1E103K050BB	445-1260-2-ND	2000	12000	0	0.0042	\$0.00	
28	28	C10, C15, C16, C18, C33, C34, C35, C37, C40, C45, C46, C48, C65, C104, C105, C111, C113, C119, C120, C131, C133, C135, C136, C200, C224, C240, C244, CC1	CAP CER 0.1UF 10V 10% X5R 0402	c0402	C1005X5R1A104K050BA	445-1265-2-ND	2800	5000	0	0.00441	\$0.00	
29	6	C29, C31, C59, C61, C67, C79	CAP CER 1UF 10V 10% X5R 0402	c0402	C1005X5R1A105K050BB	445-4114-2-ND	600	0	10000	0.01155	\$115.50	
30	25	C11, C14, C21, C24, C39, C41, C44, C51, C54, C63, C66, C70, C72, C75, C77, C85, C102, C103, C106, C107, C112, C114, C130, C132, C134	CAP CER 4.7UF 10V 20% X5R 0402	c0402	C1005X5R1A475M050BC	445-8023-2-ND	2500	10000	0	0.08	\$0.00	
31	18	C9, C20, C25, C36, C38, C50, C55, C68, C69, C80, C81, C82, C83, C84, C201, C223, C241, C243	CAP CER 47UF 6.3V 20% X5R 0805	c0805	C0805C476M9PACTU	399-5506-2-ND	1800	2200	0	0.2475	\$0.00	
32	1	C1	Do Not Install	c0603				0	0		\$0.00	
33	6	C26, C27, C32, C56, C57, C62	CAP CER 5p 50V NPO	c0402			600	0	720		\$0.00	
34	6	B1, B2, B5, B6, B20, B22	FERRITE CHIP 75 OHM 500MA 0603	F0603	BLM188B750S1N1D	490-5209-2-ND	600	0	4000	0.02304	\$92.16	
35	2	U14, U15	IC OPAMP 110MHz with Disable	soic8	CLC405AJE		200	1500	0		\$0.00	
36			Intentionally left blank								\$0.00	
37			Intentionally left blank								\$0.00	
38			Intentionally left blank								\$0.00	
39			Intentionally left blank								\$0.00	
40	16	R0, R15, R16, R24, R25, R27, R28, R33, R44, R45, R47, R48, R105, R106, R200, R201	RES 0.0 OHM 1/10W JUMP 0402 SMD	R0402	ERJ-2GE0R00X	P0.0JTR-ND	1600	15000	0	0.00248	\$0.00	
41	2	R117, R118	RES 33.2 OHM 1/10W 1% 0402 SMD	R0402	ERJ-2RKF33R2X	P33.2LTR-ND	200	400	0	0.00347	\$0.00	
42	2	R1, R2	RES 61.9 OHM 1/16W 1% SMD 0402	R0402	RG1005P-61R9-D-T10	RT0402DRE0761R9L-ND	200	0	10000	0.02092	\$209.20	

43	13	R31, R103, R110, R111, R112, R113, R114, R115, R116, R130, R131, R132, R133	RES 100 OHM 1/16W 1% 0402 SMD	R0402	304-61.9-RC	304-61.9-RC	1300	10000	0	0.00347	\$0.00	
44	3	R11, R14, R35	RES 121 OHM 1/10W 1% 0402 SMD	R0402	ERJ-2RKF1210X	P121LTR-ND	300	0	10000	0.00149	\$14.90	
45	8	R21, R22, R23, R26, R41, R42, R43, R46,	RES 365 OHM 1/10W 1% 0402 SMD	R0402	ERJ-2RKF3650X	P365LTR-ND	800	0	10000	0.00347	\$34.70	
46	5	R3, R13, R32, R37, R137	RES 1.5K OHM 1/10W 1% 0402 SMD	R0402	ERJ-2RKF1501X	P1.50KLTR-ND	500	0	10000	0.00347	\$34.70	
47	2	R10, R34	RES 3.01K OHM 1/10W 1% 0402 SMD	R0402	ERJ-2RKF3011X	P3.01KLTR-ND	200	0	10000	0.00347	\$34.70	
48	2	R12, R36	RES 3.9K OHM 1/10W 1% 0402 SMD	R0402	ERJ-2RKF3901X	P3.90KLTR-ND	200	0	10000	0.00347	\$34.70	
49	1	R136	RES 4.99K OHM 1/10W 1% 0402 SMD	R0402	ERJ-2RKF4991X	P4.99KLTR-ND	100	10000	0	0.00347	\$0.00	
50	4	R4, R5, R134, R135	RES 10K OHM 1/10W 1% 0402 SMD	R0402	ERJ-2RKF1002X	P10.0KLTR-ND	400	10000	0	0.00347	\$0.00	
51	1	R104	RES 100K OHM 1/8W 1% 0805 SMD	R0805	ERJ-6ENF1003V, or CRCW0805-10003FRT1	P100KCTR-ND	100	3000	0	0.00347	\$0.00	Can be replacd by CRCW0805- 1003FRT1
52	1	RJ4	RES 1.5M OHM 1/4W 1% 1206 SMD	R1206	ERJ-8ENF1504V	P1.50MFTR-ND	100	1000	0	0.00608	\$0.00	
53	1	R6	RES 2M OHM 1/8W 1% 0805 SMD	R0805	ERJ-6ENF2004V	P2.00MCTR-ND	100	4000	0	0.00456	\$0.00	Can be replaced by CRCW0805- 2004FRT1
54	2	RJ2, RJ3	RES 2.70M OHM 1/4W 1% 1206 SMD	R1206	RC1206FR-072M7L	311-2.70MFTR-ND	200	2000	0	0.00378	\$0.00	Can be replaced by S1206CPX270 4F20
55	1	RJ1	RES 25M OHM 1/4W 1% 1206 SMD	R1206	http://www.ims-resistors.com/resistorsRCX.html		100	1000	0		\$0.00	Can be replaced by S1206CPX250 5F30
56	1	P1	3-pin female connector	conn1x3	ECAM Technology	251-1-0310-1516	100	0	120		\$0.00	
57	2	U14, U15	IC OPAMP with disable	soic8	ELC405AJE	N/A	200		240		\$0.00	
58			Intentionally left blank								\$0.00	
59			Intentionally left blank								\$0.00	
60	1	J1		conn4x10	40-pin header-ribbon_cable- connector	Accessory made by Eshop	100	0	120		\$0.00	
61	1	P2		cable_conn4	Strain Relife/Tensolite Cable/Berg_Connector	Accessory connectors made by Eshop	100	0	120		\$0.00	
62	1	P3		cable_conn4	Strain Relife/Tensolite Cable/Berg_Connector	Accessory connectors made by Eshop	100	0	120		\$0.00	
63	1	P4		cable_conn4	Strain Relife/Tensolite Cable/Berg_Connector	Accessory connectors made by Eshop	100	0	120		\$0.00	
64	1	R3	Do Not Install	R0402				0			\$0.00	
65			Intentionally left blank									
66			Intentionally left blank									
67			Intentionally left blank									
68			Intentionally left blank									
69			Intentionally left blank									
70		Strein relife			AMP 2261177-2	For P2, P3, P4						
71		3-wire analog cable			Spectra Strip: Tensolite, 065.1811.999	For P2, P3, P4						
72		Berg Pins			Berg 47745-000	For P2, P3, P4						
73		Shrink tube			fit221 1/8, 3/16, 1/4, 3/8	For P2, P3, P4						
74		Berg 5-pin house			Berg 78211-005LF	for P3, P4						
75		Berg 5-pin Header			Berg 78208-105HLF	for P3, P4						
76		Berg 3-pin House			Berg 78211-003LF	for P2						
77		Berg 3-pin Header			Berg 78208-103HLF	for P2						
78		CA 40-pin header			CA-40NFT-1T	for J1						
79		40-position ribbon cable 1mm ptch			Tyco 57131-2	for J1						
80		CA 40-pin female connector			CA-40NFS-12G	For J1						
81		Strain relife for CA-40NFS-12G			CA-SR40NFS	for J1						
82		CA 40-pin male connector			CA-40NFHLR-12Gt	Mating part for J1 on MB						
											\$11,840.94	