

B2310V31B, B2313V31, B2316V31, B2319V31 (Motherboard-1-4) Parts List															
Fukun Tang															
The University of Chicago															
Tel: 773-702-7801															
Fax: 773-702-2971															
Email: tangmentor.uchicago.edu															
6/14/00															
Item #	Mezz	Qty/Board/Set	MB-1	MB-2	MB-3	MB-4	Qty Needed	Part Geometry	Description Value	Tolerance(+/-)	Manufacturer	Manuf. Part Number	Put-up	Buy Quantity	Vendor
Resistors															
1	0	4	2	2	2	2	2760	1206	0	1%, 1/8W	KOA	RM7322B000T	Paper tape reel	5000	Garrett
2	0	3	2	2	2	2	2475	1206	10	1%, 1/8W	IMS	RCI-1206-10R0F	Paper tape reel	5000	IMS
3	0	2	0	0	0	0	571	1206	48.7	1%, 1/8W	KOA	RM73H2B48R7F	Paper tape reel	5000	Garrett
4	0	1	1	1	1	1	1095	1206	49.9	1%, 1/8W	IMS	RCI-1206-49R9F	Paper tape reel	5000	IMS
5	0	5	5	6	5	5	5744	1206	75	1%, 1/8W	IMS	RCI-1206-75R0F	Paper tape reel	10000	IMS
6	0	1	0	16	14	0	8381	1206	110	1%, 1/8W	IMS	RCI-1206-110-F	Paper tape reel	10000	IMS
7	0	1	0	0	0	0	285	1206	1.5K	1%, 1/8W	Vishay	CRCW12061501FRT1	Paper tape reel	5000	Allied Electroni
8	0	2	0	0	0	0	571	1206	2.49K	1%, 1/8W	IMS	RCI-1206-2491F	Paper tape reel	5000	IMS
9	2	0	0	0	0	0	571	805	82.5	1%, 1/10W	IMS	RCI-0805-82R5F	Paper tape reel	5000	IMS
10	1	0	0	0	0	0	285	805	121	1%, 1/10W	IMS	RCI-0805-1210F	Paper tape reel	5000	IMS
11	5	0	0	0	0	0	1427	805	1K	1%, 1/10W	IMS	RCI-0805-1001F	Paper tape reel	5000	IMS
12	15	0	0	0	0	0	4280	805	200K	1%, 1/10W	IMS	RCI-0805-2003F	Paper tape reel	5000	IMS
Capacitors															
13	0	5	5	6	5	5	5744	805	56pf	10%, 50V	Kemet	C0805C560K5RAC	Paper tape reel	8000	Jaco
14	33	20	23	28	23	23	35091	805	0.01u	10%, 50V	Kemet	C0805C103K5RAC	Paper tape reel	36000	Jaco
15	4	58	55	53	55	55	61676	805	0.1u	10%, 50V	Kemet	C0805C104K5RAC	Paper tape reel	64000	Jaco
16	0	48	39	35	39	39	44189	1812	1u	20%, 50V	Kemet	C1812C105M5RAC	Paper tape reel	45100	Jaco
ICs															
17	0	1	1	1	1	1	1148	soic161	Digital delay		Dallas	DS1021S-50 on tape reel	Elastic tape reel	1148	Insight Elect.
18	0	12	8	13	8	8	11796	soic16	Differential line driver		National	DS26C31TMX	Plastic tape reel	12,500	Wyle
19	0	1	4	4	4	4	3695	soic16	Differential line receiver		National	DS26C32ATMX	Plastic tape reel	5000	Wyle
20	0	0	1	1	1	1	849	tgfp-44	EPLD		Altera	EPM7064STC44-10		849	Wyle
21	0	1	1	1	1	1	1148	soic8	Voltage Reference		MAXIM	MAX6241BCSA	Plastic tape reel	1148	Arrow
22	0	1	1	1	1	1	1148	soic14	N74F04D Hex inverter		TI		Plastic tape reel	2500	Allied Elect.
23	0	1	1	1	1	1	1148	soic8	Op-amp		Burr-Brown	OPA277UA/2K5	Plastic tape reel	1148	Sager Elect.
24	0	1	1	1	1	1	1148	soic8	10k resistor network		Vishay	ORNA1002A on tape reel	Plastic tape reel	1148	Vishay Thin Film
25	0	2	0	0	0	0	598	tvsp6032	Transient voltage suppr.		General Inst.	SMBJ6.5A	Plastic tape reel	750	NEP
26	0	1	0	0	0	0	299	tvsp6032	Transient voltage suppr.		General Inst.	SMBJ17A	Plastic tape reel	1000	NEP
27	1	0	0	0	0	0	299	bgal100	TTC receiver ASIC		CERN	TTCrx	Plastic tape reel		
28	1	0	0	0	0	0	299	soic8	PROM		Xilinx	XCI736ES08C	Plastic tape reel	299	Insight Elect.
29	1	0	0	0	0	0	299	tgfp144	EPLD		Altera	EPF10K10TC144-3		299	Wyle
30	1	0	0	0	0	0	299	tgfp32	EPLC		Altera	EPC1441TC32		299	Wyle
31	2	0	0	0	0	0	598	elks	EMI Filter		Panasonic	EXEC-CET103U	Plastic tape reel	1000	Digkey
Connector, socket, fuse etc.															
32	0	2	0	0	0	0	571		smf fuse, 15A		Littelfuse	R451015		6 pkg. Of	Newark
33	0	1	0	0	0	0	285		smf fuse, 10A		Littelfuse	R451010		3 pkg. Of	Newark
34	0	2	0	0	0	0	571	CANbus	5-pin header		Berg	78208-105		285	Sager Elect.
35	0	1	0	0	0	0	285	TTC	3-pin header		Berg	78208-103		285	Sager Elect.
36	0	6	6	4	6	6	6030		Single row, 4-pin female		Microcenterconn.	KSS004-85TG		6030	Bisco
37	0	4	6	4	6	6	5459		Single row, 6-pin female		Microcenterconn.	KSS006-85TG		5500	Bisco
38	0	2	0	0	0	0	571		Single row, 12-pin female		Adv. Interconn.	KSS012-85TG		571	Bisco
39	0	4	0	0	0	0	1141		Dual row, 10-pin female interconn.		Adv. Interconn.	DKS010-85TG		1150	Bisco
40	4	0	0	0	0	0	1141		Dual row, 10-pin male interconn.		Adv. Interconn.	DKA010-79G		1141	Bisco
41	0	0	1	1	0	0	540		8-pin male power conn.		Ria Elec.	31180108		1400	FAI Electronics
42	0	0	0	1	0	0	270		6-pin male power conn.		Ria Elec.	31180106		600	FAI Electronics
43	0	13	14	14	13	13	14773		40-pin header		Circuit Assembly	CA-40NPHLR-12GT		14,773	Bell Microproduct
44	1	0	0	0	0	0	285		dual row 14-pin header		Samtek	TMS-114-02-G-D		300	Sager Elect.
45	1	0	0	0	0	0	285		single row 14-pin header		Samtek	TMS-114-02-G-S		285	Sager Elect.
46	6	0	0	0	0	0	1712		Micro Shunt (black)		Samtek	SNM-100-BK-G		3994	Sager Elect.
47	8	0	0	0	0	0	2282		Micro Shunt (red)		Samtek	SNM-100-RD-G			
Power Jumpers (8-pin & 6-pin)															
48	0	0	1	1	0	0	540		8-pin female power conn.		Ria Elec.	31169108		1100	FAI Electronics
49	0	0	0	0	1	1	270		6-pin female power conn.		Ria Elec.	31169106		600	FAI Electronics
50	0	8	6	4	6	6	6600		Snap lock pin with arrowhead		Micro	slpa125-187-01		7000	Allied Electroni
51	0	0	3	3	2	2	2159		GROUND power wire, 18 awg, ??	New Eng. Wire	N20-44T-653-1 white		2200'	New Eng. Wire	
52	0	0	1	1	1	1	810		+15V power wire, 18 awg, ??	New Eng. Wire	N20-44T-653-2 black		1000'	New Eng. Wire	
53	0	0	3	3	2	2	2159		+5V power wire, 18 awg, ??	New Eng. Wire	N20-44T-653-3 red		2200'	New Eng. Wire	
54	0	0	1	1	1	1	810		-5V power wire, 18 awg, ??	New Eng. Wire	N20-44T-653-4 green		1000'	New Eng. Wire	
Motherboard Bus Jumper															
55									40-pin connector		Circuit Assembly	CA-40NFS-12G		1710	Bell Microproduct
56									Cable strain relief		Circuit Assembly	CA-SR40NFS		1700	Bell Microproduct
57									40-conductor, 1mm-pitch flat cable		MMI	57131-2		1000' min	Allied Electroni
PCBs															
58	1	0	0	0	0	0	277		B2428V30 PC BOARD						
59	0	1	0	0	0	0	277		B2310V31 PC BOARD						
60	0	0	1	0	0	0	262		B2313V31 PC BOARD						
61	0	0	0	1	0	0	262		B2316V31 PC BOARD						
62	0	0	0	0	1	0	262		B2319V31 PC BOARD						
Additional Parts (Revised on 10-16-00)															
63	0	1	0	0	0	0	285		12-pin male power conn.		Ria Elec.	31180112			
64	0	1	0	0	0	0	285		12-pin female power conn.		Ria Elec.	31169112			
65	0	1	1	0	0	0	555		8-pin terminal block		Entrelec	0033 008.20		600	Kelburn Engineeri
66	0	0	0	1	0	0	270		6-pin terminal block		Entrelec	0033 006.16		300	Kelburn Engineeri
Revisions with respect to 6/14/00:															
Quantities															
Part							Old		New						
32							571		0						
33							285		0						
41							1380		540						
42							540		270						
48							1095		540						
49							540		270						
63							0		285						
64							0		285						
65							0		555						
66							0		270						