

Rev # & Date	Summary of Changes
Rev (1) 12/05/02	Initial
Rev (2) 01/23/03	All but Caps & Resistor were updated
Rev (3) 01/30/03	Removed RS232 xcvr, Changed Codec & amp types
Rev (4) 01/31/03	Updating missing package info
Rev (5) 02/03/03	Chg SN74HCT541's pkg, Update dimensions, Chg LMV339 & 393 to six LMV331's, Chg MAX1118 to MAX1117, Rem 33V suffix from CPU part num.
Rev (6) 02/05/03	Started adding caps, added part for T1-T6 transformers, added U19 mic preamp part, updated part info for U22 audio amp.
Rev (7) 02/11/03	Finished adding caps & res. Added PAL.
Rev (8) 02/13/03	Chg U22 part type, T1 part type (rem T2-6). Delete U72, U75, U77, U81- U83. Add U26-U30,U32 instead. Chg C155's type. Add C167, C168. Add C41, C122, C169, C170, C172, C177. Chg C27 type. Chg J13&J14's type. Added R165, R166, R167, R168, R164. Added F1, Z1-Z3. Chg'd about 17 resistors' values. Renumbered C205-C238 to C173-C181. Renum. D11-D16 to D4-D9. Deleted D17-D22. Returned T7&T8 - accidentally deleted in Rev7
Rev (9) 02/25/03	Added D10. Chg U17 from buffer type to DAC part. Chg U12 from TDA8941 to TDA8943 type. Deleted: C153, C206, Q1-7, Q10-12, R42-43,R119 R127-130, R132, R150, R152, R154, R159. C236, C237, C238. Chg value: R10, R126, R104, R46-47. J1 chgd to 0 quantity. Add R50, R115, R117, R118, R124, R169, R170, C184 - C196, L19-L20, K1, Q1, F2, D11 Added ITEM numbers: 1-5=batteries, 5-28=caps, 29-39=diodes, 40-44=fuses, 45-59=headers, 60-64=relays, 65-74=inductors,75-76=plugs, 77-79=transistors, 80-99=resistors, 100-104=switches, 105-109=transformers, 110-139=ICs, 140-145=voltage regulators, 150-154=clocks, 155-159=LC circuits R10=ITEM#97. Chg'd package for VR1 (was ITEM#140, now ITEM#145)
Rev (10) 02/27/03	Chg C44's part (from ITEM#5 to ITEM#24). Chg part number of ITEM#21. Chg F2, J9, K1, VR3, VR4's part. Chg R10, R74, R158's values. Delete C45, C158, C177, L8, L9, Q1, R75, R82, R92, R96, R97, R126, R169, R170. Add J26, J29, P1, Z4-Z9. ITEMs 77, 95, 96 empty. Chg all caps in ITEM#12 EXCEPT C118 to new type (ITEM#24). Chg part number of ITEM#14. Completed Z1-Z9 & L7's Part Number. Added missing parts: R131, R162, C178, C179, C180, C181, C182, C183
Rev (11) 03/10/03	Updated missing package info on some parts. Chg package/part for ITEMs 45-47, 51, 52, 57 to be Surface Mount. Delete ITEM56 (J1) - was 0 quantity anyway. Added P2 (ITEM76). Add C45 (ITEM26) & C158 (ITEM25). Added J1&J20 as ITEM56 Added Q1 as ITEM77. Added R92(ITEM92). Add R38 as ITEM98 Move C163&C164 from ITEM22 to ITEM19. Move R33&R34 from ITEM82 to ITEM80. Added some mounting items & other devices necessary for prototype although not part of this board. Chg part number for U14 (ITEM126). Add R39, R41-43, R97, R119, R126, R130 to ITEM80, R127-128 to ITEM81, R40 to ITEM82, R129 to ITEM86
Rev (12) 03/28/03	Added ITEMs 164 & 165, Correct some quantity numbers, correct ITEM48, 57, 77, 126 & 105's part numbers Delete R115 (ITEM81), R50 (ITEM83) - other option parts. Chg Ref Des for ITEM 118 to RN1 & RN2. Delete C196(ITEM23), Chg C195 part Add R132, R169 (ITEM81), R154, R159, R171-179, R181 (ITEM80), R180 (ITEM82). Delete Q1 (ITEM77) & R38 (ITEM98) Chg C123 part (ITEM 10). Chg part for C155 from ITEM11 to ITEM10. Delete C167 & C168 (ITEM11). Delete L20 (ITEM71). Chg PKG description for ITEM133 to match datasheet.
Rev (13) 04/08/03	Correct pkg from 0805 to 0603 for ITEM14. Correct pkg from 1206 to 0805 for ITEM26. Added part no to ITEM68. Removed SMT from description of ITEM114. Deleted ITEM56 since Coax Points are not parts. Added R38 to ITEM81 & delete R161 (do not install part). Added ITEM39 (E17) & updated ITEM160
Rev (14) 04/11/03	Chg ITEM numbered 160 to be ITEM38. Changed parts for ITEMs 38 & 39 to BMI-S-205. Chgd ITEM numbers from 170 & 171 to 190 & 191 (schematic & baseboard). Delete J29 (ITEM58). Add J21-J25, J27 (ITEM 171). Added ITEMs 166 - 177 (Note: some of these parts were on BOM already, but without ITEM numbers).

Rev (15) 04/14/03	Correction: R38 moved from ITEM81 to ITEM92. Correction: Remove R147 & R148 from ITEM81- they are "do not install" parts. Correct part numbers for ITEM173 & 176 (should be 6 terminals, not 5)
Rev (16) 04/28/03	Correction: ITEM110 part should be from TI, not Phillips, since TI pattern was used on PCB. Correct part number for ITEM166 (from 9542 to 9543) Changed quantity for ITEM 54 & ITEM167 (in order to test). Chg part for ITEM 173 & ITEM176 from 6 to 3 terminals. Clean-up extraneous text from quantity parts and Authorized Sub Part columns.
Rev (17) 04/30/03	Chg'd file name to VDR_Computer_BOM_RevXX.xls
	Chg part number for ITEM55 (J9). Chg quantity for ITEM54 (because parts already ordered, now ready to build). Moved ITEMS161 - 177 from this BOM to VDR_Chassis_BOM_Rev01.xls
Rev (18) 07/17/03	Item 80: added R33, R34 and deleted R7, R20, R130, R80. Item 81: added R6, R19, deleted R8, R95. Item 82: deleted R33, R34. Item 97: added R130, R60. Item 84: added R95. Item 89: added R8. Added Item 96.
Rev (19) 08/11/03	Item 65 changed L7 from 47nh to 33nh.
Rev (20) 09/17/03	Item 82 :increased qty by 2. Item83: increased qty by 12. Item 84: increased qty by 2. Changed the following item/qty: 6/-2, 13/-2, 32/-1, 66/-1, 69/-1, 91/-1, 92/-1, 93/-1, 94/-2, 140/-1, 145/-1 , 8/+1, 20/+1, 22/+3, 90/+1, 85/+8, 86/-8. Added items 147, 148, 27, 74, 95, 98, 34, 36, 37. Changed item 32 to On Semi MBRD835L.
Rev (21) 09/25/03	Item 98: changed tolerance. Item 45: reduced qty by 1. Changed items: 22/-2, 24/+1, 12/+2, 90/-1 Added Item 99. Changed item 21 from 39pf to 36pf.
Rev (22) 09/26/03	Added item 11.
Rev (23) 10/24/03	Deleted R91 from item 81, reduced qty by 1. Added R91 to item 80, increased qty by 1. Changed items: 83/+2, 84/-1.
Rev (24) 11/4/03	Changed item 126 to MAX6390XS29D4-T. Copied existing version to -502 and created AIS only version as -501.
Rev (25) 11/10/04	Corrected part num: Item 31 (alternate), 119 (alternate), 55. Added items 28, 35, 58, 64, 77, 137, 160, 72, 29, 4. Added C200 to item 22. Added D13, D14 to item 31. Changed the following item/qty: 24/+3, 116/-1, 60/-1, 80/+5, 81/-6, 82/-3, 84/-1. Changed AVX Resistors to Calchip.
Rev (26) 11/24/04	Changed qty items: 137/-1, 83/-1(R84), 28/+1(C205), 24/+1(C203), 79/+1(R211), 25/-1, 26/-1, 45/-1(J8), 81/+1(R108), 9/+1(C168). Added items 73(PF14), 162 (R84), 163(R212,R214).

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Item	Ref Des	Description	Qty	Package	Manufacturer	Part Number	Authorized Sub Part(s)/Mfrgr
4	C202	CAP, 18pF, NPO, 50V, 10%	1	0603	Meritek	MA0603CG180J500	06035A180KAT*A AVX
5	C36,	CAP, 10 uF, 16V, TANTALUM	1	3528	AVX	TAJB106M016R	T491B106M016AS KEMET TCM1C106BT CAL CHIP TC106M16B MERITEK
6		CAP, 6.8 uF, 16V, TANTALUM	0	3528	AVX	TAJB685M016R	T491B685M016AS KEMET TCM1C685BT CAL CHIP TC685M16B MERITEK
7		CAP, 33 uF, 16V, TANTALUM	0	7343	AVX	TAJD336M016R	T491D336M016AS KEMET
8	C46, C47, C48, C157, C196	CAP, 10 uF, 16V, Low ESR, TANTALUM	5	6032	Kemet	T494C106M016AS	
9	C40, C121, C168	CAP, 100 uF, 16V, Low ESR, TANTALUM	3	7343H	Kemet	T494X107M016AS	
10		CAP, 680uF	0	SM	Panasonic	EEV-FK1C681P	
11	C167	CAP, 4.7 uF, 16V, Tantalum	1	3528	AVX	TAJB475M016R	T491B475M016AS KEMET
12	C43, C35, C29,	CAP, 0.1uF, X7R, 50V, 10%	3	0805	Meritek	MA0805XR104K500	08055C104KAT*A AVX GMC21X7R104K50NT CAL CHIP C0805C104K5RAC KEMET NMC0805X7R104K50*M NIC NMC0805X7R104K100*M NIC
13		CAP, 3.3 pF, NPO, 50V, 5%	0	0603	Meritek	MA0603CG3R3J500	06035A3R3JAT*A AVX 0603NPOH*3R3J KOA CO603C339D5GAC KEMET ??? CAL CHIP VJ0603A3R3DXAAT VISHAY/VITRM
14	C3, C5, C7, C11, C142, C143, C144, C145, C146, C173, C174, C175, C176,	CAP, 0.01uF, X7R, 10V, 10%	13	0603	AVX	0603ZC103KAT*A	
15	C9	CAP, 0.27uF, X7R, 10V, 10%	1	0805	AVX	0805ZC274KAT*A	

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16		CAP, 0.22uF, X7R, 16V, 10%	0	0805	AVX	0805YC224KAT*A	
17	C133, C134	CAP, 22pF, NPO, 50V, 10%	2	0603	Meritek	MA0603CG220J500	06035A220KAT*A AVX ?? CAL CHIP C0603C220K5GAC KEMET NMC0603NPO220J50 NIC
18	C4, C6, C8, C10, C12	CAP, 100pF, NPO, 50V, 10%	5	0603	Meritek	MA0603CG101J500	06035A101KAT2A AVX C0603C101K5GAC KEMET
19	C124, C131, C172	CAP, 1200pF, X7R, 25V, 10%	3	0603	AVX	06033C122KAT*A	
20	C34	CAP, 1500pF, X7R, 25V, 10%	1	0603	AVX	06033C152KAT*A	
21		CAP, 36pF, NPO, 50V, 10%	0	0603	Meritek	MA0603CG360J500	06035A360KAT*A AVX ?? CAL CHIP C0603C360K5GAC KEMET NMC0603NPO360J50 NIC
22	C30, C33, C38, C49, C51, C57, C166, C179, C180, C181, C200	CAP, 1uF, X7R, 25V, 10%	11	1206	KEMET	C1206C105K3RAC	12063C105KAT*A AVX GMC31X7R105K25NT CAL CHIP
23	C195	CAP, 0.15uF	1	THT	Panasonic	ECQ-U2A154ML	
24	C13, C14, C31, C32, C44, C50, C52, C53, C54, C55, C56, C58, C59, C60, C61, C62, C63, C64, C65, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C94, C95, C96, C97, C99, C100, C101, C201, C203, C103, C104, C107, C108, C110, C111, C125, C126, C127, C128, C129, C130, C132, C135, C136, C137,	CAP, 0.1uF, X7R, 10V, 10%	85	0603	AVX	0603ZC104KAT*A	

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	C138, C139, C140, C141, C147, C148, C149, C150, C151, C152, C154, C171, C154, C171, C178, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193, C194						
25	C158	CAP, 470pF, 200V, NPO, 10%	0	0805	AVX	08052A471KAT*A	
26	C45	CAP, 0.01uF, 200V, X7R, 10%	0	0805	AVX	08052C103KAT*A	
27	C177	CAP, 0.33uF, X7R, 16V, 10%	1	1206	AVX	1206YC334KAT*A	
28	C198, C199, C205	Cap, 47uF,16V, Tantalum, 20%	3	7343	Kemet Cal-Chip	T491D476M016AS TCMIC476DT	
29	D2	Diode, Dual Schottky Barrier	1	SOT23	Agilent	HSMS2812-*	
30	D4, D5, D6, D7, D8, D9	Diode, Dual Switching	6	SOT23	Infineon	BAW56	
31	D3, D13, D14	Diode, Schottky, SMT, 1A, 30V	3	SMB/ D0214AA	Fairchild	MBRS130L	Tape & Reel (FS PKG Code P6) MBRS130LT3 ON Semiconductor
32	D1	Schottky, Rectifier	1	DPAK	On Semi	MBRD835L	
33	D11	Diode, Transorb Zener, 1.8J	1	SMD	Panasonic	ERZ-SF2MK470	
34	D12	Diode, switching	1	SOT23-S	On Semi.	MMBD914LT1	
35	D15	Diode, rectifier	1	DO-214AC	Microsemi	GS1J	
36	E15	RF shield, cover	1		BMI Inc.	BMI-S-203-C	
37	E15	RF shield, fence	1	SM	BMI Inc	BMI-S-203-F	
38	E17	RF shield, cover	1		BMI Inc.	BMI-S-205-C	
39	E17	RF shield, fence	1	SM	BMI Inc	BMI-S-205-F	

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40	F1	Fuse, 250mA, resettable	1	THT	TYCO	RXE025	
41	F2	Fuse, 8A, resettable	1	THT	TYCO	RHE750	
45	J5, J7	Header, 10 pos., Dual 5-Row	2	2 x 5 SM	FCI/Berg	54202-S30-05	Made from 54202-S30-36
46	J3	Header, 14 pos., Dual 7-Row	1	2 x 7 SM	FCI/Berg	54202-S30-07	Made from 54202-S30-36
47	J15, J16, J17, J18	Header, 20 pos., Dual 10-Row	4	2 x 10 SM	FCI/Berg	54202-S30-10	Made from 54202-S30-36
48	J2	Header, 1 pin	1	1 x 1 THT	FCI/Berg	54101-S30-01	Made from 54101-S30-36
49	J19	Header, 3 pos., Single Row	1	1 x 3 THT	FCI/BERG	54101-S30-03	Made from 54101-S30-36
50	J19	PUSH-ON JUMPER	1	1 x 3	BERG ELECTR	68786-202	
51	J10, J11	Header, 30 pos., Dual 15-Row	2	2 x 15 SM	Samtec	FTS-115-01-L-DV-*	
52	J12	Header, 34 pos., Dual 17-Row	1	2 x 17 SM	Samtec	FTS-117-01-L-DV-*	
53	J13	Receptacle, 20 pos., Dual 10-Row, 0.8mm	1	2 x 10 SM	Samtec	CLE-110-01-G-DV	Note: connects to ITEM166
54	J14	Receptacle, 20 pos., Dual 10-Row, 0.5mm	0	2 x 10 SM	Molex	52991-0208	Note: connects to ITEM167 Order part but don't populate on board
55	J9	Header, 75 pos, Five 15-Row, 0.2mm, 0.395 Stacker height, 0.1 tail, 0.673	1	5 x 15 THT	Samtec	YTW-15-06-G-5-290-100	
56							
57	J26	Header, 2 pos, Single Row	1	1 X 2 SM	FCI/BERG	54202-S30-02	Made from 54202-S30-36
58	K1	Relay	1	GQ	aromat	agq200a12	
60		Relay, MOSFET photo, 60V	0	SOP	Omron	G3VM-S5-S	
63	L7	inductor, 82nH, 2%	1	SM	Coilcraft	1812SMS-82NG	

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64	L8	inductor, 6.8uH, 15%, 2.7A	1		Dale/Vishay	IHSM48256.8uh+/-15%	
65		inductor, 33nH, 2%	0	SM	Coilcraft	1812SMS-33NG	
66		Inductor, 47 uH	0	THT	Coiltronics	CTX50-1-52LP	
67	L19	Ferrite Bead	1	SM	FairRite	2744044447	
68	L5	Inductor, 0.11uH, 50mA	1	0805	Coilcraft	0805LS-111XJB*	
69		Inductor, 68 uH	0	SMT	Coiltronics	UP4B-680	
70	L10, L11, L12, L13, L14, L15, L16, L17, L18	Coil, common mode choke, 1Kohm	9	4532 SM	EMC	ACM4532-102-3P-*	
71	L1	Inductor, 10 uH	1	DR74	Coiltronics	DR74-100	
72	L9	inductor, 0.27uH, 10%, 0.759A	1		API Delevan	1210-271K	
73	PF14	EMI Filter	1	0603	Panasonic	EXC-3BB601H	Digikey #P10189CT
75	P1	Connector, 29 pos, Right Angle, Circular	1	THT	Positronic Industries	FR19FF2922K0	
76	P2	Connector, 9 pos, Right Angle, Circular	1	THT	Positronic Industries	FR11FF922K0-XXX.X	Note: custom part
77	Q2	Transistor, NPN	1	SOT-23	Fairchild Semi	MMBT2222A	
78		Transistor, MOSFET, N Channel	0	SOT-23	Fairchild	BSS138	
79	R158, R211	RES, 820, 0.06W, 5%	2	0603	Cal-Chip	RM06J821CT	
80	R1, R2, R3, R4, R5, R9, R11, R12, R13, R39, R41, R42, R43, R49, R61, R62, R63, R66, R91, R97, R119, R126, R107, R116, R131, R135, R137, R146, R154, R171,	RES, 10.0K, 0.06W, 5%	44	0603	Cal-Chip	RM06J103CT	??? CAL CHIP CRCW0603103JRT1 DALE ??? MERITEK

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	R172, R173, R174, R175, R176, R177, R178, R179, R181, R203, R204, R205, R206, R207						
81	R6, R32, R35, R36, R37, R83, R92, R108 R121, R122, R127, R128, R219, R162, R169, R129, R202	RES, 0 OHM	17	0603	Cal-Chip	RM06J000CT	CRCW0603 0OHM DALE ??? KOA WCR0603 ZERO OHM IRC
82	R56, R57, R58, R40, R180, R198, R199	RES, 1.0K, 0.06W, 5%	7	0603	Cal-Chip	RM06J102CT	??? CAL CHIP CRCW0603102JRT1 DALE ??? KOA ??? MERITEK
83	R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, R197 R200, R201, R73	RES, 100, 0.06W, 5%	15	0603	Cal-Chip	RM06J101CT	??? CAL CHIP CRCW0603101JRT1 DALE ??? KOA ??? MERITEK
84	R21, R79, R80, R86, R87, R53, R54, R67, R93, R81, R103, R95, R185, R86, R208	RES, 22, 0.06W, 5%	15	0603	Cal-Chip	RM06J220CT	??? CAL CHIP CRCW0603220JRT1 DALE ??? KOA ??? MERITEK
85	R44, R45, R46, R47, R68, R77, R138, R136, R143, R144, R149, R151, R153, R155	RES, 120, 0.06W, 5%	14	0603	Cal-Chip	RM06J121CT	
86	R129	RES, 2.4K, 0.06W, 5%	1	0603	Cal-Chip	RM06J242CT	
87	R163	RES, 120K, 0.06W, 5%	1	0603	Cal-Chip	RM06J124CT	
88	R52, R133, R139, R156, R157, R145	RES, 270, 0.06W, 5%	6	0603	Cal-Chip	RM06J271CT	
89	R55, R64, R104, R134, R140, R141, R142, R8	RES, 3.3K, 0.06W, 5%	7	0603	Cal-Chip	RM06J332CT	

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90	R48, R51, R65, R76, R105, R106	RES, 4.99K, 0.06W, 1%	6	0603	Cal-Chip	RM06F4991CT	
91		RES, 1.69K, 0.125W, 1%	0	1206	MERITEK	CR081691F	CR32-1691FT AVX RM12F1691CT CAL CHIP RK73H2BT1691F KOA
92	R38, R92, R89	RES, 0 OHM	3	1206	Cal-Chip	RM12J000CT	CRCW1206 0OHM DALE
93		RES, 3.92K, 0.125W, 1%	0	1206	MERITEK	CR083921F	CR32-3921FT AVX RM12F3921CT CAL CHIP RK73H2BT3921F KOA
94		RES, 1.0K, 0.125W, 1%	0	1206	MERITEK	CR081001F	CR32-1001FT AVX RM12F1001CT CAL CHIP RK73H2BT1001F KOA
95	R90	RES, 6.34K, 0.06W, 1%	1	1206	Cal-Chip	RM12F6341CT	
96	R182, R183	RES, 1.5K, 0.06W, 5%	2	0603	Cal-Chip	RM06J152CT	
97	R10, R158, R130, R60	RES, 330, 0.06W, 5%	4	0603	Cal-Chip	RM06J331CT	
98	R69	RES, 0.33 ohms, 1W, 10%	1	2512	Vishay	WSL2512R3300FTA	
99	R59	RES, 4.99K, 0.125W, 1%	1	1206	Cal-Chip	RM12F4991CT	
100	S1, S2	Switch, Pushbutton, SPST	2	SM	C&K	PTS645SL43SM	
105	T7, T8	IC, RF Transformer	2	SM	Mini Circuits	ADT4-1WT	
106	T1	Transformer, 1CT:1.3CT	1	SM	Transtek	TMTR4.8RE004	Custom part built for L3 AR
110	U6	IC, SMT, Single Inverter	1	SOP/ DBV	TI	SN74LVC1G04DBV*	
111	U15	IC, Receive Signal Processor(RSP)	1	BC-196	Analog Devices	AD6624AABC	
112	U31	IC, A/D Converter, 14 Bit	1	LQFP	Analog Devices	AD6645ASQ-80	

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113	U9	IC, SMT, 8 Meg (512Kx16) Flash, 90nS 48 pin, 3.3V	1	TSOP	GNS	291-xxxx-501	AM29LV800BB90EC AMD Raw non-programmed part
114	U11	IC, RTC w integrated battery & crystal, 8Kx8 Static RAM	1	DIP (THT)	Maxim/Dallas	DS1743W-150	
115	U4	IC, Quad Differential Line Driver, RS422	1	SOP	National	DS26LS31CM	
116		IC, LVDS Quad Receiver	0	TSSOP	National	DS90LV048ATMTC	
117	U13	IC, FPGA, 3.3V, RAM Based	1	256 PIN FBGA	Altera	EP1K100FC256-3	
118	RN1, RN2	IC, Resistor Array, 100 ohm, 8 resistors	2	SM	Panasonic	EXB-2HV101JV	
119	U7	IC, SMT, 1 Meg (64Kx16) Static Ram, 10nS, 44 Pin, 3.3V	1	FBGA	IDT	IDT71V016SA10BF	IS61LV6416-10B ISSI
120	U10	IC, SMT, 8 Meg (512Kx16) Static Ram, 12nS, 44 Pin, 3.3V	1	TSOP	ISSI	IS61LV51216-12T	
121	U70, U71	IC, Transformer Driver for isolated RS485 interface	2	SO	Maxim	MAX253CSA	
122		IC, ADC	0	SOT23	Maxim	MAX1117EKA	
123	U21	IC, RS422/RS485 Transceivers, 3.3V	1	SO	Maxim	MAX3488CSA	
124		IC, Microphone Preamp	0	QFN	Maxim	MAX4061EGA	
125		IC, Digital to Analog converter, 8 bit	0	SOT23	Maxim	MAX5222EKA-T	
126	U14	IC, Reset, Power monitor	1	SC70-4	Maxim	MAX6390XS29D4-T	
127	U1	IC, MC68VZ328 CPU, 33 MHz	1	TQFP	Motorola	MC68VZ328PV	
128	U73, U74, U76, U78, U79, U80	IC, Photocoupler	6	mini-flat	Sharp	PC410L0NIP	

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PARTS LIST

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Item	Ref Des	Description	Qty	Package	Manufacturer	Part Number	Authorized Sub Part(s)/Mfgr
129	U26, U27, U28, U29, U30, U32	IC, RS-485 Transceiver	6	MS-012/ PSOP	TI	SN65HVD22D	
130	U23	IC, SMT, Octal Buffer w. tristate outputs	1	SOIC/ DW	TI	SN74HCT541DW	
131	U12	IC, Audio Amplifier, 1.5W	0	SIL9MPF/ SOT110-1	Philips	TDA8943SF	
132		IC, Stereo Amplifier, 40W BTL	0	SOT243-1	Philips	TDA1560Q	
133	U16, U67, U69	IC, Dual UART, 3.3V, 64K FIFO	3	S-PQFP- G48	TI	TL16C752BPT	
134		IC, Codec, 16bit, Dual Channel	0	TQFP PFB	TI	TLV320AIC20C	
135	U3	IC, DSP, 100MHZ	1	TQFP	TI	TMS320VC5402PGE	
136	U20	IC, SMT, PLD (32 Macros), 10 nS, 44 pin	1	TQFP-44	GNS	290-xxxx-501	EPM3032ATC44-10 Altera Raw non-programmed part
137	U25	IC, LVDS Receiver	1	SOP/M08A	National	DS90LV018ATM	
140		IC, Voltage Regulator, 3A, Adjustable output	0	TO263 SM	National	LM2596S-ADJ	
141	VR3	IC, LDO Voltage Regulator, 1A, 5V output	1	SOT-223	Micrel	MIC39100-5.0BS	
142	VR5	IC, LDO Voltage Regulator, 150mA, Adjustable output	0	MSOP/ VSSOP/ DGK	TI	TPS77201DGK	
143	VR6	IC, LDO Voltage Regulator, 150mA, 5V output	1	MSOP/ VSSOP/ DGK	TI	TPS77250DGK	
144	VR7	IC, LDO Voltage Regulator, 250mA, 1.8V output	1	MSOP/ VSSOP/ DGK	TI	TPS77318DGK	

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Item	Ref Des	Description	Qty	Package	Manufacturer	Part Number	Authorized Sub Part(s)/Mfgr
145		IC, Voltage Regulator, 3A, Adjustable output	0	TO220	National	LM2596T-ADJ	
146	VR4	IC, LDO Voltage Regulator, 1A, 2.5V output	1	SOT-223	Micrel	MIC39100-2.5BS	
147	VR1	IC, LDO Voltage Regulator, 3A, 3.3V output	1	TO-220-3	Micrel	MIC29310-3.3BT	
148	VR2	IC, Voltage Regulator, 4.5A, Adjustable output, 500 KHz	1	R	Linear Technology	LT1374CR-SYNC	
155	Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9	LC EMI Filter, 470pF, 2A	9	SM	Panasonic	EXC-CET471U	
160	R120	RES, 390, 0.06W, 5%	1	0603	Cal-Chip	RM06J391CT	
161	R102	RES, 10, 0.06W, 5%	1	0603	Cal-Chip	RM06J100CT	
162	R84	RES, 200, 0.06W, 5%	1	0603	Cal-Chip	RM06J201CT	
163	R212, R214	RES, 470, 0.06W, 5%	2	0603	CAL CHIP	RM06J471CT	
190		Baseboard	1		GNS	404-7601-001	
191		Schematic	Ref		GNS	600-7601	

NOTE 1: * in part number is in place of packaging type.

2: GNS authorizes any packaging, compatible with PWB footprint, available to insure best price, proper quantity, and requested delivery date.

3: A "X" in part number indicates that digit can be any value.

Last Used Part Designator:	Unused Part Designator(s):
BT	None
C197	C167, C168, C177, C196
D11	None
E86	E9, E18-E20, E25
F2	None

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Item	Ref Des	Description	Qty	Package	Manufacturer	Part Number	Authorized Sub Part(s)/Mfgr
	J27	None					
	K1	None					
	L19	L8-L9					
	P2	None					
	Q9	Q1-Q7					
	R183	R161					
	RN2	None					
	S2	None					
	T8	T2 - T6					
	U80	U33-U51, U53-U66, U68, U72, U75,					
	VR7	None					
	Y1	None					
	Z9	None					

NOTE: some Designators are not on BOM but are not unused either - they are reserved "Do Not Install" parts.