

# Parts List

## 511060-0001R

ASSY,DA830 MULTICHANNEL AUDIO BOARD

SUBA

Type	PL	PCB Package
Revision	E	ION Footprint
Status	U	Package Qty
Date	5/28/2008	Bin Loc.
By		SUBA

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
1	1 each	511061-0001R	DWG D	PWB,DA830 MULTICHANNEL AUDIO BOARD CSTM	
2	1 each	511062-0001	DOC D	LOGIC,DA830 MULTICHANNEL AUDIO BOARD SCH	
5	1 each	102794-0001R	PS	IC,TQFP80,AUDIO CODEC MATL	U15 AKM Semiconductor
6	4 each	102820-0001R	PS	IC,SSOP20,24-BIT DAC,SINGLE-ENDED ANALOG MATL	U11, U4, U7, U9 Texas Instruments
7	4 each	102823-0001R	PS	IC,SO8,DUAL OP AMP MATL	U14, U18, U20, U22 Texas Instruments
		so8-25x75			
8	4 each	102605-0001R	PS	IC,SO8,DUAL AUDIO OP AMP MATL	U10, U3, U6, U8 Texas Instruments
		so8-25x75			
9	3 each	101057-0004R	PS	IC,SO5,SINGLE INVERTER GATE MATL	U12, U13, U19 Texas Instruments
		dck-5			
10	1 each	102872-0001R	PS	IC,DBV6,CONFIGURABLE MULTIPLE-FUNCTION MATL	U16 Texas Instruments
		dbv6-27x39-6			
12	3 each	102821-0001R	PS	IC,MSOP8,LDO REGULATOR,250mA MATL	U23, U24, U25 Texas Instruments
		MSOP8-16X60-181			

**Parts List**

ASSY,DA830 MULTICHANNEL AUDIO BOARD  
SUBA

511060-0001R

Rev E

Printed 8/9/2011

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
13	1 each	102822-0001R	PS	IC,QFN24,DC-DC CONVERTER,POSITIVE AND MATL	U5 TPS65131RGET Texas Instruments
14	1 each	102784-0001R drc10-11x33	PS	IC,SMT,BOOST CONVERTER MATL	U21 TPS61080DRCT Texas Instruments
17	1 each	100913-0001R	PS	REGULATOR,SMT,TO263,ADJUSTABLE,LM317S MATL	U2 LM317KTTR Texas Instruments
18	1 each	102829-0001R	PS	IC,SOT263,REGULATOR,ADJUSTABLE,NEGATIV MATL	U1 LM337KTTR Texas Instruments
19	1 each	102201-2457R xtal4-70x78-ctx	PS	OSC,SMT,24.576 MHZ,3.3V MATL	U17 CSX750FBC24.576000M- UT Citizen America Corporation
20	1 each	100937-0245R xtal2-216x60-hcm49	PS	CRYSTAL,SMT,24.576 MHZ MATL	Y1 HCM49-24.576MABJ-UT Citizen America Corporation
21	1 each	101057-0125R dck-5	PS	IC,SO5,SINGLE BUS BUFFER GATE MATL	U26 SN74LVC1G125DCKR Texas Instruments
22	1 each	102827-0001R	PS	TRANSISTOR,SOT23,MOSFET,20V MATL	Q1 SI2323DS-T1-E3 Vishay Intertechnology
23	2 each	100587-0001R	PS	TRANSISTOR,SMT,SOT23,2N4401 MATL	Q10, Q9 MMBT4401-7-F Diodes, Inc.
24	1 each	101360-0001R sot23-28x44-bec	PS	TRANSISTOR,SOT23,PNP,FMMT3906 MATL	Q8 MMBT3906-7-F Diodes, Inc.

# Parts List

ASSY,DA830 MULTICHANNEL AUDIO BOARD  
SUBA

511060-0001R

Rev E

Printed 8/9/2011

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
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25	8 each	102809-0001R  sot23-28x44	PS	TRANSISTOR,SOT23,NPN MATL 2SC3326A(T5LFT)	Q11, Q12, Q2, Q3, Q4, Q5, Q6, Q7  Toshiba
26	2 each	101640-0001R	PS	DIODE,SMT,SCHOTTKY RECTIFIER,1A,40V MATL MBRM140T1G	D1, D4  ON Semiconductor
27	1 each	101367-0001R	PS	DIODE,SMT,SCHOTTKY,DUAL,BAT54C MATL BAT54C	D5  Fairchild Semiconductor
28	1 each	100185-0001R  SOT23-28X44	PS	DIODE,SOT23,SWITCHING MATL BAS16-7-F	D6  Diodes, Inc.
29	2 each	101328-0001R  do214aa-79x110	PS	DIODE,SMT,ULTRAFAST RECTIFIER,1A,50-600V MATL MURS120T3G	D2, D3  ON Semiconductor
32	5 each	100823-0001R  led1206-59x59	PS	LED,SMT 1206,GREEN MATL LTST-C150GKT	DS1, DS2, DS5, DS6, DS7  LITEON
33	1 each	100823-0003R  led1206-59x59	PS	LED,SMT 1206,ORANGE MATL LTST-C150EKT	DS3  LITEON
34	1 each	100823-0002R  led1206-59x59	PS	LED,SMT 1206,RED MATL LTST-C150CKT	DS4  LITEON
41	1 each	102569-1470R  emi-NFM21p	PS	FILTER,SMT 0805,EMI,.47uF,16V MATL NFM21PC474R1C3D	E1  Murata Electronics
42	1 each	101592-0731R  cdrh6	PS	INDUCTOR,SMT,7.3uH MATL CDRH6D28NP-7R3NC	L6  Sumida Electric Co., Ltd.

**Parts List**

ASSY,DA830 MULTICHANNEL AUDIO BOARD  
SUBA

511060-0001R

Rev E

Printed 8/9/2011

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
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43	2 each	101776-0530R	PS	<b>INDUCTOR,SMT,5.3uH,5.7mm SQ.</b> MATL	L2, L3  Sumida Electric Co., Ltd.
				CDRH5D28NP-5R3NC	
44	1 each	101228-2201R	PS	<b>FERRITE BEAD,SMT 0805,220 OHMS</b> MATL	L1  Murata Electronics
				BLM21PG221SN1D	
				I805-35x60	
45	2 each	101126-0001R	PS	<b>FERRITE BEAD,SMT 1806,75 OHMS</b> MATL	L4, L5  Murata Electronics
				BLM41PG750SN1L	
				FB1806-41X70	
50	2 each	101290-0102R	PS	<b>CAP,TANT,SMT 2816,100uF,16V</b> MATL	C20, C23  Kemet Electronics Corporation
				T491D107K016AT	
				c7343-84x118	
52	1 each	100625-0221R	PS	<b>CAP,TANT,SMT 2816,22uF,25V</b> MATL	C143  Kemet Electronics Corporation
				T491D226M025AT	
				c7343-84x118	
55	16 each	102852-0221R	PS	<b>CAP,ELEC,SMT,22uF,10V</b> MATL	C10, C107, C111, C120, C134, C139, C146, C36, C37, C5, C57, C58, C70, C77, C97, C98  Panasonic
				EEE-FK1A220R	
60	44 each	102824-0101R	PS	<b>CAP,CER,SMT 1206,10uF,16V,X5R</b> MATL	C108, C109, C11, C112, C113, C119, C126, C13, C133, C14, C140, C142, C144, C145, C149, C151, C155, C17, C2, C29, C32, C38, C40, C41, C43, C48, C52, C53, C56, C59, C6, C62, C63, C65, C66, C71, C73, C78, C80, C82, C84, C86, C90, C92  Murata Electronics
				GRM31CR61C106KC31L	
				C1206-40X70	
61	10 each	101694-0470R	PS	<b>CAP,CER,SMT 1206,4.7uF,16V,X5R</b> MATL	C21, C22, C24, C25, C27, C28, C45, C46, C47, C49  Kemet Electronics Corporation
				C1206C475K4PAC	
				C1206-40X70	

**Parts List**

ASSY,DA830 MULTICHANNEL AUDIO BOARD  
SUBA

511060-0001R

Rev E

Printed 8/9/2011

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
62	1 each	101007-0220R  c603-35x45	PS	CAP,CER,SMT 0603,2.2uF,6.3V,X5R,+/-10% MATL GRM188R60J225KE19D	C123  Murata Electronics
63	2 each	100942-0100R  C1206-40X70	PS	CAP,CER,SMT 1206,1uF,16V,+/-20%,X7R MATL 1206YC105MAT2A	C33, C44  AVX Corporation
68	2 each	101001-1104R  c603-35x45	PS	CAP,CER,SMT 0603,10pF,50V,+/-5pF,NPO MATL ECJ-1VC1H100D	C35, C4  Panasonic
69	1 each	100999-1220R  c603-35x45	PS	CAP,CER,SMT 0603,.22uF,16V,+80/-20%,Y5V MATL 0603YG224ZAT2A	C34  AVX Corporation
70	55 each	100994-1100R  c603-35x45	PS	CAP,CER,SMT 0603,.1uF,16V,+/-10%,X7R MATL C0603C104K4RAC	C1, C100, C104, C106, C110, C114, C117, C118, C12, C121, C122, C124, C125, C131, C132, C141, C147, C148, C15, C152, C154, C157, C158, C159, C160, C18, C19, C3, C30, C31, C39, C42, C50, C51, C54, C55, C60, C61, C64, C67, C68, C69, C7, C72, C74, C75, C76, C79, C8, C81, C83, C85, C89, C91, C99  Kemet Electronics Corporation
71	6 each	100993-1101R  c603-35x45	PS	CAP,CER,SMT 0603,.01uF,50V,+/-10%,X7R MATL 06035C103KAT2A	C150, C153, C156, C16, C26, C9  AVX Corporation
72	1 each	100994-1471R  c603-35x45	PS	CAP,CER,SMT 0603,.047uF,16V,+/-10%,X7R MATL ECJ-1VB1C473K	C136  Panasonic

**Parts List**

ASSY,DA830 MULTICHANNEL AUDIO BOARD  
SUBA

511060-0001R

Rev E

Printed 8/9/2011

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
ION Footprint					
				Mfr P/N	Mfr Name
75	16 each	100993-3303R	PS	CAP,CER,SMT 0603,330pF,50V,+/-10%,X7R MATL	C101, C102, C103, C105, C115, C116, C127, C128, C129, C130, C137, C138, C93, C94, C95, C96 AVX Corporation
		c603-35x45		06035C331KAT2A	
76	2 each	101103-1184R	PS	CAP,CER,SMT 0603,18pF,50V,+/-5%,NPO MATL	C87, C88 Panasonic
		c603-35x45		ECJ-1VC1H180J	
77	1 each	101002-1334R	PS	CAP,CER,SMT 0603,33pF,50V,+/-5%,NPO MATL	C135 Panasonic
		c603-35x45		ECJ-1VC1H330J	
79	5 each	100155-0001R	PS	RES,SMT 1206,0 OHM,1/8 WATT MATL	R166, R167, R27, R30, R45 Yageo
		r1206-40x70		RC1206JR-070RL	
80	20 each	100687-0001R	PS	RES,SMT 0603,0 OHM,1/16 WATT MATL	R105, R112, R132, R133, R14, R15, R153, R156, R16, R174, R175, R205, R207, R209, R29, R38, R5, R61, R82, R89 Panasonic
		r603-35X45		ERJ-3GEY0R00V	
81	22 each	100687-0100R	PS	RES,SMT 0603,1 OHM,5%,1/16 WATT MATL	R128, R129, R158, R159, R177, R178, R190, R193, R194, R2, R200, R32, R33, R40, R41, R42, R50, R51, R64, R65, R88, R91 Panasonic
		r603-35X45		ERJ-3RQJ1R0V	
82	30 each	100687-3300R	PS	RES,SMT 0603,33 OHM,5%,1/16 WATT MATL	R100, R101, R102, R103, R104, R106, R107, R108, R109, R120, R122, R123, R124, R125, R126, R127, R130, R148, R150, R151, R71, R72, R73, R85, R86, R95, R96, R97, R98, R99 Yageo
		r603-35X45		RC0603JR-0733RL	

**Parts List**

ASSY,DA830 MULTICHANNEL AUDIO BOARD  
SUBA

511060-0001R

Rev E

Printed 8/9/2011

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				Mfr P/N	Mfr Name
83	16 each	100642-3321R	PS	RES,SMT 0603,332 OHM,1%,1/16 WATT MATL ERJ-3EKF3320V	R10, R11, R12, R34, R36, R37, R52, R53, R59, R60, R66, R67, R78, R79, R80, R81 Panasonic
		r603-35x45			
84	8 each	100642-5621R	PS	RES,SMT 0603,562 OHM,1%,1/16 WATT MATL ERJ-3EKF5620V	R35, R46, R57, R58, R76, R77, R8, R9 Panasonic
		r603-35x45			
85	8 each	100642-2202R	PS	RES,SMT 0603,2.2K OHM,1%,1/16 WATT MATL RC0603FR-072K2L	R115, R135, R154, R155, R176, R179, R187, R90 Yageo
		r603-35x45			
86	16 each	100642-4752R	PS	RES,SMT 0603,4.75K OHM,1%,1/16 WATT MATL ERJ-3EKF4751V	R113, R114, R116, R134, R136, R137, R138, R157, R160, R161, R162, R186, R188, R189, R191, R92 Panasonic
		r603-35x45			
87	9 each	100687-1003R	PS	RES,SMT 0603,10K OHM,5%,1/16 WATT MATL RC0603JR-0710KL	R117, R139, R140, R163, R164, R180, R185, R192, R93 Yageo
		r603-35X45			
88	2 each	100642-1001R	PS	RES,SMT 0603,100 OHM,1%,1/16 WATT MATL RC0603FR-07100RL	R149, R171 Yageo
		r603-35x45			
95	3 each	100642-6200R	PS	RES,SMT 0603,62 OHM,1%,1/16 WATT MATL RC0603FR-0762RL	R197, R69, R70 Yageo
		r603-35x45			
96	2 each	100687-1501R	PS	RES,SMT 0603,150 OHM,5%,1/16 WATT MATL ERJ-3GEYJ151V	R201, R202 Panasonic
		r603-35x45			
97	1 each	100642-7500R	PS	RES,SMT 0603,75 OHM,1%,1/16 WATT MATL ERJ-3EKF75R0V	R13 Panasonic
		r603-35x45			

**Parts List**

ASSY,DA830 MULTICHANNEL AUDIO BOARD  
SUBA

511060-0001R

Rev E

Printed 8/9/2011

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				Mfr P/N	Mfr Name
98	1 each	100642-1101R  r603-35x45	PS	RES,SMT 0603,110 OHM,1%,1/16 WATT MATL RC0603FR-07110RL	R17  Yageo
99	1 each	100642-2211R  r603-35x45	PS	RES,SMT 0603,221 OHM,1%,1/16 WATT MATL ERJ-3EKF2210V	R20  Panasonic
100	2 each	100642-4991R  r603-35x45	PS	RES,SMT 0603,499 OHM,1%,1/16 WATT MATL ERJ-3EKF4990V	R55, R56  Panasonic
101	11 each	100642-1002R  r603-35x45	PS	RES,SMT 0603,1K OHM,1%,1/16 WATT MATL ERJ-3EKF1001V	R118, R119, R141, R143, R144, R145, R183, R208, R28, R3, R4 Panasonic
102	8 each	100642-1502R  r603-35x45	PS	RES,SMT 0603,1.5K OHM,1%,1/16 WATT MATL ERJ-3EKF1501V	R18, R39, R48, R54, R63, R68, R84, R94 Panasonic
103	9 each	100642-1622R  r603-35x45	PS	RES,SMT 0603,1.62K OHM,1%,1/16 WATT MATL ERJ-3EKF1621V	R110, R111, R131, R152, R168, R172, R173, R182, R87 Panasonic
104	1 each	100642-1203R  r603-35x45	PS	RES,SMT 0603,12K OHM,1%,1/16 WATT MATL RC0603FR-0712KL	R142  Yageo
105	3 each	100642-3013R  r603-35x45	PS	RES,SMT 0603,30.1K OHM,1%,1/16 WATT MATL ERJ-3EKF3012V	R196, R199, R204  Panasonic
106	1 each	100642-4753R  r603-35x45	PS	RES,SMT 0603,47.5K OHM,1%,1/16 WATT MATL ERJ-3EKF4752V	R181  Panasonic
107	1 each	100642-5363R  r603-35x45	PS	RES,SMT 0603,53.6K OHM,1%,1/16 WATT MATL ERJ-3EKF5362V	R198  Panasonic



**Parts List**

ASSY,DA830 MULTICHANNEL AUDIO BOARD  
SUBA

511060-0001R

Rev E

Printed 8/9/2011

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		ION Footprint		Mfr P/N	Mfr Name
108	1 each	100642-4992R  r603-35x45	PS	RES,SMT 0603,4.99K OHM,1%,1/16 WATT MATL ERJ-3EKF4991V	R165  Panasonic
109	1 each	100642-2154R  r603-35x45	PS	RES,SMT 0603,215K OHM,1%,1/16 WATT MATL ERJ-3EKF2153V	R170  Panasonic
110	2 each	100642-9763R  r603-35x45	PS	RES,SMT 0603,97.6K OHM,1%,1/16 WATT MATL ERJ-3EKF9762V	R195, R203  Panasonic
111	4 each	100642-4993R  r603-35x45	PS	RES,SMT 0603,49.9K OHM,1%,1/16 WATT MATL ERJ-3EKF4992V	R169, R31, R43, R7  Panasonic
112	1 each	100642-2491R  r603-35x45	PS	RES,SMT 0603,249 OHM,1%,1/16 WATT MATL ERJ-3EKF2490V	R26  Panasonic
113	1 each	100642-2152R  r603-35x45	PS	RES,SMT 0603,2.15K OHM,1%,1/16 WATT MATL ERJ-3EKF2151V	R25  Panasonic
114	1 each	100642-2492R  r603-35x45	PS	RES,SMT 0603,2.49K OHM,1%,1/16 WATT MATL ERJ-3EKF2491V	R184  Panasonic
115	1 each	100642-5764R  r603-35x45	PS	RES,SMT 0603,576K OHM,1%,1/16 WATT MATL ERJ-3EKF5763V	R6  Panasonic
116	1 each	100642-1211R  r603-35x45	PS	RES,SMT 0603,121 OHM,1%,1/16 WATT MATL ERJ-3EKF1210V	R24  Panasonic
117	1 each	100642-1052R  r603-35x45	PS	RES,SMT 0603,1.05K OHM,1%,1/16 WATT MATL ERJ-3EKF1051V	R23  Panasonic

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511060-0001R

Rev E

Printed 8/9/2011

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				Mfr P/N	Mfr Name
118	1 each	100642-6204R  r603-35x45	PS	RES,SMT 0603,620K OHM,1%,1/16 WATT MATL ERJ-3EKF6203V	R44  Panasonic
119	4 each	100115-0002R  JUMP1X2-6040	PL	HEADER,2 X 1,VERTICAL,PIN SUBA	JP3, JP4, JP5, JP6
120	2 each	100115-0003R  JUMP1X3-6040	PL	HEADER,3 X 1,VERTICAL,PIN SUBA	JP1, JP2
121	8 each	101768-0001R  cui3533-10070	PS	CONN,STEREO JACK,3.5mm MATL SJ1-3533N	J10, J11, J12, J5, J6, J7, J8, J9 CUI, Inc.
125	1 each	102540-0017R  rcajack-CUI-RCJ-01	PS	CONN,RCA,RIGHT ANGLE,ORANGE MATL RCJ-017	J2 CUI, Inc.
126	1 each	102540-0014R  rcajack-CUI-RCJ-01	PS	CONN,RCA,RIGHT ANGLE,YELLOW MATL RCJ-014	J3 CUI, Inc.
130	1 each	102283-0001R  conn5-torx141p	PS	CONN,FIBER OPTIC RECEIVING MODULE MATL TORX147PL(F,T)	J1 Toshiba
150	1 each	102620-0040R  qte40x2-18x57	PS	CONN,SMT,HEADER,40x2,.316H,.8mm,HI-SPEED MATL QTE-040-02-L-D-A-K	P1 Samtec, Inc.
155	1 each	102389-0001R  sw3-80x30-gs01-rt	PS	SWITCH, SMT,SLIDE,RT ANGLE,SPDT MATL GS01MSABE	SW1 C&K/Unimax, Inc.

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511060-0001R

Rev E

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		ION Footprint		Mfr P/N	Mfr Name
160	51 each	100115-0001R	PL	HEADER,1 X 1,VERTICAL,PIN SUBA	TP1, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP2, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP3, TP30, TP31, TP32, TP33, TP34, TP35, TP36, TP37, TP38, TP39, TP4, TP40, TP41, TP42, TP43, TP44, TP45, TP46, TP47, TP48, TP49, TP5, TP50, TP51, TP6, TP7, TP8, TP9
tp1-6040					
175	13 each	R0603-NOPOP	PS	NP	R121, R146, R147, R19, R206, R21, R22, R47, R49, R62, R74, R75, R83
r603-35X45					
176	1 each	NO-POP	PS	NP	J4
178	1 each	101048-0004R	PS	BUMPER,#4,RECESSED,.5 DIA.,.25H MATL	720 Keystone Electronics Corp.
179	1 each	100455-0312R	PS	SPACER,HEX,BRASS,4-40,.25 O.D. X .312L MATL	2101-440-B-12 RAF Electronics
182	1 each	100329-0187R	PS	SCREW,PHILLIPS,PAN,SS,4-40 X .187 MATL	0440X0187PNPHSSPS Above Board Electronics,Inc.