## **Parts List**

	,TMS32	<b>001R</b> 0C5535 eZDSP MOD	ULE		Type Revision Status	PL C U	PCB Package ION Footprint Package Qty	1
					Date By	1/11/2011	Bin Loc. Avg Cost	SUBA
Item	Qty Unit	Part Number	Type Rev	Title Detail				Reference
		ION Footprin	t			Mfr P/	N	Mfr Name
1	1	514581-0001R	DWG	PWB,TM	IS320C5535	eZDSP MOD	OULE	
	each		С	CSTM				
2	1   each	514582-0001	DOC	LOGIC,T	MS320C553	35 eZDSP MC	DDULE	
5	<u> </u>	103659-0001R	□ ∣ PS	│ │IC,BGA1	44,DSP,TM	X320C5535Z	HH	U4
	each			MATL	, ,			
		skt-sg-bga-6044-144				TMX3	20C5535AZHH10	Texas Instruments
6	1	100837-0001R	PS	1 ' '	SERIAL EE	PROM,3 WIR	E	U2
	each			MATL				
		so8-25x75	. 50	. 10 0500	4 5 1141 1161		246DN-SH-T	Atmel Corporation
7	1   each	103172-0001R	PS	MATL	4,DUAL US	BUARI		U6
	] 00011	PQFP64PM		1417 (12		FT223	2HL	Future Technology Devices Internationa Limited
8	1	103165-0001R	PS	IC,SO16	SERIAL FL	ASH MEMOR	RY,QUAD I/O,64	U9
	each			MATL				
		so16-25x75-300					64BVSFIG	Winbond Electronics Corp
9	1	103128-0001R	PS		2,ULTRA LO	OW POWER	STEREO AUDIO	U17
	each	OFN100 00000		MATL		TI \/00	00 A ICOOO AIDI IDT	Taura la struma ante
10	1	QFN32_202SQ   <b>101593-0001R</b>	PS	LIC TSSO	P14 OHAD	FET BUS SW	OAIC3204IRHBT	Texas Instruments
10	each	101333-00011	' 3	MATL	114,QUAD	1 L1 B03 3W	ili Cii,LOVV	03
	J	tssop14-14x70		I		SN740	CBTLV3125PWR	Texas Instruments
11	1	102288-0001R	PS	IC,TSSO	P14,QUAD	BUS BUFFE	R GATE,LOW	U10
	each			MATL				
		pw14-12x70					V125APWR	Texas Instruments
12	<b>2</b> each	103735-0001R	PS	MATL	STEP-DOWN	I		U1, U12
		ddc5					2260DDCR	Texas Instruments
13	1 each	102000-0001R	PS	IC,QSOF	20,LOW VC	)LTAGE,QUI	CK SWITCH	U18
		QSOP20-14X70				SN740	CBTLV3245APWR	Texas Instruments

Item	Qty Unit	Part Number	Type Rev	Title Detail		Reference
		ION Footprint			Mfr P/N	Mfr Name
15	3 each	103203-0001R	PS	IC,SOT23-8,CURRENT/VO	LTAGE MONITOR	U15, U16, U3
		SOT23-8_DCN		•	INA219AIDCN	Texas Instruments
16	1	103125-0001R	PS	IC,SO8,250mA TPS76601D	VOLTAGE	U11
	each			MATL		
		so8-25x75			TPS76601DR	Texas Instruments
18	1	102132-0001R	PS	IC,SO5,BOOST CONVERT	ER,250mA	U13
	each			MATL		
		dbv-20x60-5			TPS61041DBVR	Texas Instruments
19	1	102728-0001R	PS	IC,SMT,ESD PROTECTION	I	U7
	each			MATL		
		drl5-12x40			TPD2E001DRLR	Texas Instruments
20	1	102948-0001R	PS	IC,DBV6,SINGLE D-TYPE	FLIP-FLOP WITH	U8
	each			MATL		
		dbv6-27x39-6			SN74LVC1G175DBV	Texas Instruments
26	1	103464-0012R	PS	OSC,SMT,12 MHZ,3.3V		U14
	each			MATL		
		xtal4-26x33-asdm			ASDM1-12.000MHZ-LC-T	Abracon
30	1	102883-0032R	PS	CRYSTAL,SMT,32.768kHz		Y1
	each			MATL		
		xtal4-23x47-ssp-t7			SSPT7F-12.5PF20-R	Seiko Instruments USA, Inc.
35	1	100894-0005R	PS	DIODE,MELF,ZENER,6.2V	,500mW	D2
	each			MATL		
		MELF1206-40X70			ZMM5234B-7-F	Diodes, Inc.
36	3	101009-0001R	PS	DIODE,S0D-123,SCHOTTK	Y POWER,1A	D1, D3, D4
	each			MATL		
		sod123-36x48			MBR0520LT1G	ON Semiconductor
40	1	103336-0001R	PS	LED,SMT 1206,BLUE		DS6
	each			MATL		
		led1206-59x59			598-8291-107F	Dialight Corporation
41	3	100823-0001R	PS	LED,SMT 1206,GREEN		DS1, DS2, DS3
	each			MATL		
		led1206-59x59			LTST-C150GKT	LITEON
42	1   each	100823-0002R	PS	LED,SMT 1206,RED   MATL		DS4
	]	led1206-59x59		···· /· <u>-</u>	LTST-C150CKT	LITEON
43		101088-0001R	PS	LED,SMT 1206,YELLOW	2101 0100000	DS5
70	each	101000-00011	1 3	MATL		500
	] 530.1	led1206-59x59		···· · · · =	SML-LX1206YC-TR	Lumex, Inc.
		1601200-09X09			GIVIL-LA IZUUTU-TR	Lumex, IIIC.

Item	Qty Unit	Part Number	Type Rev	Title Detail		Reference
		ION Footprint			Mfr P/N	Mfr Name
50	6 each	101858-6001R	PS	FERRITE BEAD,SMT 0603	,600 OHM	FB1, FB4, FB5, FB6, FB7, L3
	,	l603-35x45		1	BLM18AG601SN1D	Murata Electronics
51	<b>2</b> each	101728-1501R	PS	FERRITE BEAD,SMT 0805	5,150 OHMS	FB2, FB3
	1	1805-35x60		I	BLM21AG151SN1D	Murata Electronics
52	3 each	101228-2201R	PS	FERRITE BEAD,SMT 0805	5,220 OHMS	L1, L4, L5
		1805-35x60		1	BLM21PG221SN1D	Murata Electronics
55	1 each	102495-0220R	PS	INDUCTOR,SMT,2.2uH,+/-		L2
		ind-vlf3010		ı	VLF3010AT-2R2M1R0	TDK Corporation
56	<b>2</b> each	102747-0220R	PS	INDUCTOR,SMT,2.2uH,+/-   MATL	30%	L6, L7
	ı	ind_vlcf		J	VLCF4020T-2R2N1R7	TDK Corporation
60	1 each	100395-0101R	PS	CAP,TANT,SMT 1311,10ul   MATL	F,20V	C9
	ı	c3528-64x112		I	TAJB106M020R	AVX Corporation
61	2	101824-0102R	PS	CAP,TANT,SMT 1311,100	ıF,6V	C13, C14
	each			MATL		
		c3528-64x112	'	,	T491B107M006AT	Kemet Electronics Corporation
65	<b>2</b> each	101866-0220R	PS	CAP,CER,SMT 1206,2.2uF	;,16V,+/-10%,X7R	C119, C120
		C1206-40X70		•	EMK316B7225KL-T	Taiyo Yuden
66	<b>7</b> each	102590-0470R	PS	CAP,CER,SMT 0603,4.7uF	,6.3V,X5R,+/-20%	C100, C20, C23, C44, C76, C98, C99
	,	c603-35x45			GRM188R60J475ME19D	Murata Electronics
67	<b>5</b> each	102193-0100R	PS	CAP,CER,SMT 0603,1uF,1   MATL	6V,X5R,+/-10%	C107, C109, C110, C112, C114
	,	c603-35x45		I	0603YD105KAT2A	AVX Corporation
68	15 each	102963-0101R	PS	CAP,CER,SMT 0603,10uF,	6.3V,X5R,+/-20%	C1, C10, C11, C12, C15, C18, C19, C21, C25, C3, C4, C6, C7, C8, C94
		c603-35x45			GRM188R60J106ME	Murata Electronics
69	<b>2</b> each	101007-1470R	PS	CAP,CER,SMT 0603,.47uF	F,6.3V,X5R,+/-10%	C16, C17
	J	c603-35x45		1	GRM188R60J474KA01D	Murata Electronics
70	1 each	100994-1221R	PS	CAP,CER,SMT 0603,.022u	F,16V,+/-10%,X7R	C115
	1	c603-35x45		I	ECJ-1VB1C223K	Panasonic

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
71	<b>2</b> each	103709-0470R	PS	CAP,TANT,SMT 0603,4.7uF,6.3V,+/-20% MATL	C26, C95
	'	c603-35x45-pol		F980J475MMA	Nichicon Corporation
74	<b>2</b> each	102058-1222R	PS	CAP,CER,SMT 0402,2200pF,50V,+/-10%,X7R MATL	C124, C125
		c402-25		C0402C222K5RACTU	Kemet Electronics Corporation
75	<b>2</b> each	101782-1334R	PS	CAP,CER,SMT 0402,33pF,50V,+/-5%,NPO MATL	C90, C91
		c402-25	ı	C0402C330J5GAC	Kemet Electronics Corporation
76	9 each	102962-0100R	PS	CAP,CER,SMT 0402,1uF,6.3V,+/-10%,X5R MATL	C2, C42, C5, C52, C53, C54, C64, C83, C86
		c402-25		GRM155R60J105KE19D	Murata Electronics
77	1 each	101782-1104R	PS	CAP,CER,SMT 0402,10pF,50V,+/-5%,NPO MATL	C103
		c402-25		C0402C100J5GAC	Kemet Electronics Corporation
78	a2 each	101587-1100R	PS	CAP,CER,SMT 0402,.1uF,10V,+/-10%,X5R  MATL	C101, C102, C104, C105, C106, C108, C111, C113, C116, C117, C118, C122, C123, C22, C24, C27, C31, C34, C35, C36, C39, C47, C61, C68, C70, C78, C79, C80, C81, C92, C96, C97
		c402-25		C0402C104K8PACTU	Kemet Electronics Corporation
79	4 each	101587-1101R	PS	CAP,CER,SMT 0402,.01uF,16V,+/-10%,X7R MATL	C33, C37, C58, C93
		c402-25		C0402C103K4RAC	Kemet Electronics Corporation
85	4 each	103367-1102R	PS	CAP,CER,SMT 0201,1000pF,25V,+/-10%,X7R MATL	C50, C56, C66, C74
		c201-6p6spc		GRM033R71E102KA01D	Murata Electronics
86	26 each	103241-1100R	PS	CAP,CER,SMT 0201,.1uF,6.3V,+/-10%,X5R  MATL	C28, C29, C30, C32, C40, C45, C46, C48, C49, C57, C59, C60, C62, C63, C65, C67, C69, C71, C72, C75, C77, C82, C84, C85, C87, C88
		c201-6p6spc		GRM033R60J104KE19D	Murata Electronics
87	<b>7</b> each	103241-1101R	PS	CAP,CER,SMT 0201,.01uF,6.3V,+/-10%,X5R MATL	C38, C41, C43, C51, C55, C73, C89
	•	c201-6p6spc		GRM033R60J103KA01D	Murata Electronics

100   32						1 1111100 1720/2011
101   32	Item	-	Part Number			Reference
R130, R131, R133, R13, R133, R35, R34, R85, R34, R86, R86, R76, R87, R80, R71, R81, R84, R86, R87, R84, R86, R87, R84, R87, R84, R87, R84, R87, R84, R87, R84, R87, R84, R87, R87, R87, R87, R87, R87, R87, R87			ION Footprint		Mfr P/N	Mfr Name
101   2	100		101370-0001R	PS		R130, R131, R133, R16, R23, R27, R30, R32, R35, R38, R5, R54, R55, R60, R61, R64, R68, R69, R71, R8, R84, R86, R89, R90, R91, R92,
Pack   Pack			r402-25		RC0402JR-070RL	Yageo
102   3	101		101370-1001R	PS		R114, R7
each		'	r402-25		RC0402JR-07100RL	Yageo
103   29	102		101370-1004R	PS		R18, R37, R41
each		ı	r402-25		RC0402JR-07100KL	Yageo
104   3	103			PS	MATL	R109, R113, R115, R117, R13, R134, R135, R136, R138, R14, R19, R22, R24, R25, R3, R33, R36, R42, R43, R44, R52, R57, R59, R74, R98, R99
MATL			r402-25		RC0402JR-0710KL	Yageo
105	104		101370-1002R	PS		R110, R111, R132
PS   RES,SMT 0402,220 OHM,5%,1/16 WATT   R127, R137		'	r402-25		RC0402JR-071KL	Yageo
106         1         101370-2003R         PS         RES,SMT 0402,20K,5%,1/16 WATT MATL         R116           r402-25         ERJ-2GEJ203X         Panaso           107         6 each         101370-2201R         PS         RES,SMT 0402,220 OHM,5%,1/16 WATT MATL         R12, R17, R75, R76, R77, R78           108         2 each         101370-2204R         PS         RES,SMT 0402,220K,5%,1/16 WATT MATL         R127, R137           ERJ-2GEJ224X         Panaso           109         6 each         101370-3300R         PS         RES,SMT 0402,33 OHM,5%,1/16 WATT MATL         R66, R67, R79, R80, R81, R82           100         8 each         101370-4700R         PS         RES,SMT 0402,47 OHM,5%,1/16 WATT MATL         R39, R45, R46, R47, R48, R49, R53, R58	105		101370-2202R	PS		R21
each		,	r402-25		RC0402JR-072K2L	Yageo
107         6 each         101370-2201R         PS         RES,SMT 0402,220 OHM,5%,1/16 WATT R77, R75, R76, R77, R78         R12, R17, R75, R76, R77, R78           108         2 each         101370-2204R         PS         RES,SMT 0402,220K,5%,1/16 WATT MATL         R127, R137           109         6 each         101370-3300R         PS         RES,SMT 0402,33 OHM,5%,1/16 WATT R81, R82         R66, R67, R79, R80, R81, R82           110         8 each         101370-4700R         PS         RES,SMT 0402,47 OHM,5%,1/16 WATT R48, R49, R53, R58         R39, R45, R46, R47, R48, R49, R53, R58	106		101370-2003R	PS		R116
each         MATL         R77, R78           r402-25         RC0402JR-07220RL         Yag           108         2 each         101370-2204R         PS         RES,SMT 0402,220K,5%,1/16 WATT MATL         R127, R137           109         6 each         101370-3300R         PS         RES,SMT 0402,33 OHM,5%,1/16 WATT MATL         R66, R67, R79, R80, R81, R82           110         8 each         101370-4700R         PS         RES,SMT 0402,47 OHM,5%,1/16 WATT MATL         R39, R45, R46, R47, R48, R49, R53, R58		,	r402-25		ERJ-2GEJ203X	Panasonic
108         2 each         101370-2204R         PS         RES,SMT 0402,220K,5%,1/16 WATT MATL         R127, R137           109 6 each         101370-3300R         PS         RES,SMT 0402,33 OHM,5%,1/16 WATT MATL         R66, R67, R79, R80, R81, R82           110 8 each         101370-4700R         PS         RES,SMT 0402,47 OHM,5%,1/16 WATT MATL         R39, R45, R46, R47, R48, R49, R53, R58	107		101370-2201R	PS		
each         MATL         ERJ-2GEJ224X         Panaso           109 6 each         101370-3300R         PS RES,SMT 0402,33 OHM,5%,1/16 WATT R81, R82         R66, R67, R79, R80, R81, R82           r402-25         RC0402JR-0733RL         Yag           110 8 each         101370-4700R         PS RES,SMT 0402,47 OHM,5%,1/16 WATT R48, R49, R53, R58           MATL         R39, R45, R46, R47, R48, R49, R53, R58		'	r402-25		RC0402JR-07220RL	Yageo
109         6 each         101370-3300R         PS         RES,SMT 0402,33 OHM,5%,1/16 WATT MATL         R66, R67, R79, R80, R81, R82           110         8 each         101370-4700R         PS         RES,SMT 0402,47 OHM,5%,1/16 WATT MATL         R39, R45, R46, R47, R48, R49, R53, R58	108		101370-2204R	PS		R127, R137
each         MATL         R81, R82           r402-25         RC0402JR-0733RL         Yag           110         8   101370-4700R   PS   RES,SMT 0402,47 OHM,5%,1/16 WATT   R39, R45, R46, R47, R48, R49, R53, R58           MATL         R39, R45, R46, R47, R48, R49, R53, R58			r402-25		ERJ-2GEJ224X	Panasonic
110         8 each         101370-4700R         PS         RES,SMT 0402,47 OHM,5%,1/16 WATT MATL         R39, R45, R46, R47, R48, R49, R53, R58	109		101370-3300R	PS		
each R48, R49, R53, R58		,	r402-25		RC0402JR-0733RL	Yageo
r402-25 RC0402JR-0747RL Yag	110		101370-4700R	PS		
		I	r402-25		RC0402JR-0747RL	Yageo

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprin	t	Mfr P/N	Mfr Name
120	1 each	102145-1073R	PS	RES,SMT 0402,10.7K OHM,1%,1/16 WATT MATL	R125
	,	r402-25		ERJ-2RKF1072X	Panasonic
121	1 each	102145-1003R	PS	RES,SMT 0402,10K,1%,1/16 WATT  MATL	R29
		r402-25		RC0402FR-0710KL	Yageo
122	1	102145-1694R	PS	RES,SMT 0402,169K,1%,1/16 WATT	R126
	each			MATL	
	ı	r402-25		ERJ-2RKF1693X	Panasonic
125	1 each	100642-1605R	PS	RES,SMT 0603,1.6M OHM,1%,1/16 WATT	R6
	J	r603-35x45		ERJ-3EKF1604V	Panasonic
127	<b>2</b> each	100687-4702R	PS	RES,SMT 0603,4.7K OHM,5%,1/16 WATT	R10, R104
	J	r603-35X45		RC0603JR-074K7L	Yageo
130	1	100642-1203R	PS	RES,SMT 0603,12K OHM,1%,1/16 WATT	R28
	each	*CO2 25v45		MATL POSSOSED 0740KI	Varia
131		r603-35x45   <b>100642-1804R</b>	ı PS	RC0603FR-0712KL   RES,SMT 0603,180K OHM,1%,1/16 WATT	Yageo
131	each	100042-10041	'3	MATL	174
	J	r603-35x45		RC0603FR-07180KL	Yageo
132	<b>2</b> each	100642-1802R	PS	RES,SMT 0603,1.8K OHM,1%,1/16 WATT	R70, R15
	J	r603-35x45		ERJ-3EKF1801V	Panasonic
133	1 each	100642-3924R	PS	RES,SMT 0603,392K OHM,1%,1/16 WATT	R112
	J	r603-35x45		RC0603FR-07392KL	Yageo
134	1 each	100642-8062R	PS	RES,SMT 0603,8.06K OHM,1%,1/16 WATT	R65
	J	r603-35x45		ERJ-3EKF8061V	Panasonic
135		│ 100642-3602R	PS	RES,SMT 0603,3.6K OHM,1%,1/16 WATT	R11
	each			MATL	
140		r603-35x45	PS		Yageo
	each			MATL RC0603FR-073K6L	
	each	r603-35x45		MATL  RC0603FR-073K6L  RES,SMT 1206,0 OHM,1/8 WATT	Yageo
	each	r603-35x45		MATL  RC0603FR-073K6L  RES,SMT 1206,0 OHM,1/8 WATT  MATL	Yageo   R1, R87, R88

OODA					Filited 7/20/2011
Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
146	3 each	100552-0100R	PS	RES,SMT 0805,1 OHM,5%,1/10 WATT  MATL	R20, R96, R97
		r805-35x60	,	ERJ-6GEYJ1R0V	Panasonic
150	<b>2</b> each	103273-0001R	PS	SWITCH,SMT,PUSHBUTTON,MOMENTARY,.25 MATL	SW1, SW2
	ı	sw-ksc4-GW	ı	KSC421G70SHLFS	C&K/Unimax, Inc.
151	1 each	101184-0004R	PS	SWITCH,DIP,SMT,HALF-PITCH,4 POS. MATL	SW3
	l	sw4-30x50-tda	l	TDA04H0SB1R	C&K/Unimax, Inc.
160	2 each	103285-0010R	PS	CONN,SMT,VERTICAL,HEADER,10X2,.225 HIGH MATL	P1, P3
		fci-87409-110	I	87409-110LF	Framatome Connectors International
161	2 each	102129-0001R	PS	CONN,SMT,STEREO JACK,3.5mm MATL	J3, J4
	•	sj1_3515	•	SJ1-3515-SMT	CUI, Inc.
162	1 each	103053-0001R	PS	CONN,SMT,RECEPTACLE,MICROSD,REVERSE MATL	J6
		molex-49225-201	,	49225-0821	Molex
163	1 each	101677-0001R	PS	CONN,SMT,RECEPTACLE,5 POS,RIGHT MATL	J1
		SAMTEC-MUSB	'	MUSB-05-S-B-SM-A-K-TR	Samtec, Inc.
164	1 each	103290-0014R	PS	CONN,SMT,RECEPTACLE,14 POS.,.5mm MATL	J5
		conn14-12x30-VLL	I	10051922-1410ELF	Framatome Connectors International
165	1 each	103136-0001R	PS	CONN,PLUG,4 POS,RIGHT ANGLE,USB TYPE A MATL	J2
		molex_48037-001	'	48037-0001	Molex
170	1 each	100115-0003R	PL	HEADER,3 X 1,VERTICAL,PIN SUBA	JP3
175	1 each	JUMP1X3-6040   103286-0001R	PS	DISPLAY,LCD,96 X 16 PIXELS,MONOCHROME	XJ5
	Cacii			OSD9616GLBBG01	One Stop Displays
176	1   IN	103344-1000R	PS	TAPE,DOUBLE-SIDED,FOAM,1" WIDE,1/32" MATL	XXJ5
	ı <b>.</b>		1	4032-1"X72YD	3M Electronic Products Division
180	1 each	C0402-NOPOP	PS	  NP	C121
	I	c402-25	I	1	I

Item	Qty Unit	Part Number	Type Rev	Title Detail		Reference
		ION Footprint	t		Mfr P/N	Mfr Name
185	19 each	R0402-NOPOP	PS	NP		R101, R105, R106, R107, R120, R141, R26, R31, R34, R40, R50, R51, R56, R62, R63, R72, R73, R83, R85
		r402-25				
190	1 each	R0603-NOPOP	PS	NP		R9
		r603-35X45				
192	<b>2</b> each	R0805-NOPOP	PS	NP		R121, R123
195	<b>4</b> each	TP-NO-POP tp1-6040	PS	NP		TP1, TP3, TP4, TP6
196	3 each	TP-20RD10-NO-POP	PS	NP		TP2, TP5, TP7
		tp-20RD10				
200	<b>7</b> each	NO-POP	PS	NP		JP1, JP2, JP4, JP5, JP6, JP7, P2