

# Parts List

## 512840-0001R

ASSY,TMS320C5515 eZDSP USB STICK  
SUBA

Type	PL	PCB Package	
Revision	A	ION Footprint	
Status	U	Package Qty	0
Date	11/4/2009	Bin Loc.	*
By		Product Class	SUBA

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr Name	Mfr P/N
1	1 each	512841-0001R	DWG A	PWB,TMS320C5515 eZDSP USB STICK CSTM	
2	1 each	512842-0001	DOC A	LOGIC,TMS320C5515 eZDSP USB STICK SCH	
5	1 each	100837-0001R	PS	IC,SOIC,SERIAL EEPROM,3 WIRE MATL	U2
		so8-25x75		Atmel Corporation	AT93C46DN-SH-T
6	1 each	103204-0001R	PS	IC,BGA196,.65mm PITCH,DSP,VC5515 MATL	U4
		zch196-p65mm		Texas Instruments	TMX320VC5515AZCH
7	1 each	103342-0070R	PS	IC,TSOP48,FLASH,32M,3V,70nS,X8/X16 BOTTOM MATL	U5
		tsop48-10x60		Spansion	S29AL032D70TFI040
8	1 each	102939-0001R	PS	IC,QFP48,DUAL USB UART MATL	U6
		lqfp48-10x50		Future Technology Devices International Limited	FT2232D
9	1 each	103128-0001R	PS	IC,QFN32,ULTRA LOW POWER STEREO AUDIO MATL	U11
		QFN32_202SQ		250 belong to SDI - MD 02/05/10. Texas Instruments	TLV320AIC3204IRHBT
12	1 each	102132-0001R	PS	IC,SO5,BOOST CONVERTER,250mA MATL	U9
		dbv-20x60-5		Texas Instruments	TPS61041DBVR
13	1 each	101530-0080R	PS	IC,SO5,SINGLE POSITIVE-EDGE-TRIGGERED MATL	U3
		dbv-20x60-5		Texas Instruments	SN74LVC1G80DBVR
15	2 each	103125-0001R	PS	IC,SO8,250mA TPS76601DVOLTAGE MATL	U8, U1
		so8-25x75		Texas Instruments	TPS76601DR
16	1 each	102288-0001R	PS	IC,TSSOP14,QUAD BUS BUFFER GATE,LOW MATL	U7
		pw14-12x70		Texas Instruments	SN74LV125APWR

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17	1 each	102463-0001R	PS	IC,SO5,LINEAR REGULATOR,ADJUSTABLE, MATL	U12
		dbv-20x60-5		Texas Instruments	TPS76901DBVT
20	1 each	100983-0012R	PS	OSC,SMT,12 MHZ MATL	U10
		OSC4-71X79		CTS Electronics Corporation	CB3LV-3C-12M0000
25	1 each	102883-0032R	PS	CRYSTAL,SMT,32.768kHz MATL	Y1
		xtal4-23x47-ssp-t7		Seiko Instruments USA, Inc.	SSPT7F-12.5PF20PPM
30	1 each	100894-0005R	PS	DIODE,MELF,ZENER,6.2V,500mW MATL	D1
		MELF1206-40X70		Diodes, Inc.	ZMM5234B-7-F
31	1 each	101009-0001R	PS	DIODE,SOD-123,SCHOTTKY POWER,1A MATL	D2
		sod123-36x48		ON Semiconductor	MBR0520LT1G
35	2 each	100823-0001R	PS	LED,SMT 1206,GREEN MATL	DS1, DS2
		led1206-59x59		LITEON	LTST-C150GKT
36	1 each	103336-0001R	PS	LED,SMT 1206,BLUE MATL	DS5
		led1206-59x59		Dialight Corporation	598-8291-107F
37	1 each	100823-0002R	PS	LED,SMT 1206,RED MATL	DS3
		led1206-59x59		LITEON	LTST-C150CKT
38	1 each	101088-0001R	PS	LED,SMT 1206,YELLOW MATL	DS4
		led1206-59x59		Lumex, Inc.	SML-LX1206YC-TR
40	1 each	102495-0220R	PS	INDUCTOR,SMT,2.2uH,+/-20% MATL	L3
		ind-vlf3010		TDK Corporation	VLF3010AT-2R2M1R0
45	6 each	101858-6001R	PS	FERRITE BEAD,SMT 0603,600 OHM MATL	FB1, L4, FB4, FB5, FB6, FB7
		l603-35x45		Murata Electronics	BLM18AG601SN1D
46	2 each	101728-1501R	PS	FERRITE BEAD,SMT 0805,150 OHMS MATL	FB2, FB3
		l805-35x60		Murata Electronics	BLM21AG151SN1D
47	2 each	101228-2201R	PS	FERRITE BEAD,SMT 0805,220 OHMS MATL	L2, L1
		l805-35x60		Murata Electronics	BLM21PG221SN1D

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		ION Footprint		Mfr Name	Mfr P/N
50	1 each	100395-0101R	PS	CAP,TANT,SMT 1311,10uF,20V MATL	C19
		c3528-64x112		AVX Corporation	TAJB106M020R
51	2 each	101824-0102R	PS	CAP,TANT,SMT 1311,100uF,6V MATL	C23, C24
		c3528-64x112		Kemet Electronics Corporation	T491B107M006AT
55	1 each	101003-0101R	PS	CAP,TANT,SMT 1206,10uF,6.3V MATL	C6
		c1206-40x70-POL		Kemet Electronics Corporation	T491A106M006AT
56	2 each	101866-0220R	PS	CAP,CER,SMT 1206,2.2uF,16V,+/-10%,X7R MATL	C113, C114
		C1206-40X70		Taiyo Yuden	EMK316BJ225KL-T
57	14 each	101497-0101R	PS	CAP,CER,SMT 1206,10uF,6.3V MATL	C2, C3, C4, C7, C12, C13, C16, C18, C20, C21, C22, C27, C28, C97
		C1206-40X70		Taiyo Yuden	JMK316B7106ML-T
60	7 each	102590-0470R	PS	CAP,CER,SMT 0603,4.7uF,6.3V,X5R,+/-20% MATL	C1, C17, C29, C31, C92, C95, C117
		c603-35x45		Panasonic	ECJ-1VB0J475M
61	5 each	102193-0100R	PS	CAP,CER,SMT 0603,1uF,16V,X5R,+/-10% MATL	C101, C103, C104, C106, C110
		c603-35x45		AVX Corporation	0603YD105KAT2A
62	2 each	101007-1470R	PS	CAP,CER,SMT 0603,.47uF,6.3V,X5R,+/-10% MATL	C25, C26
		c603-35x45		Panasonic	ECJ-1VB0J474K
64	3 each	100994-1331R	PS	CAP,CER,SMT 0603,.033uF,16V,+/-10%,X7R MATL	C5, C8, C80
		c603-35x45		Panasonic	ECJ-1VB1C333K
65	1 each	100994-1221R	PS	CAP,CER,SMT 0603,.022uF,16V,+/-10%,X7R MATL	C111
		c603-35x45		Panasonic	ECJ-1VB1C223K
70	2 each	101782-1474R	PS	CAP,CER,SMT 0402,47pF,50V,+/-5%,NPO MATL	C14, C11
		c402-25		Kemet Electronics Corporation	C0402C470J5GACTU
71	2 each	101782-1334R	PS	CAP,CER,SMT 0402,33pF,50V,+/-5%,NPO MATL	C91, C90
		c402-25		Kemet Electronics Corporation	C0402C330J5GAC

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		ION Footprint		Mfr Name	Mfr P/N
72	10 each	102962-0100R	PS	CAP,CER,SMT 0402,1uF,6.3V,+/-10%,X5R MATL	C10, C15, C40, C45, C50, C53, C66, C78, C85, C116
		c402-25		Murata Electronics	GRM155R60J105KE19D
73	1 each	101782-1104R	PS	CAP,CER,SMT 0402,10pF,50V,+/-5%,NPO MATL	C96
		c402-25		Kemet Electronics Corporation	C0402C100J5GAC
74	48 each	101587-1100R	PS	CAP,CER,SMT 0402,.1uF,10V,+/-10%,X5R MATL	C30, C32, C34, C35, C36, C93, C94, C107, C112, C33, C38, C39, C42, C43, C46, C48, C59, C61, C63, C64, C65, C67, C70, C71, C73, C74, C75, C76, C79, C81, C82, C83, C84, C87, C88, C98, C99, C100, C102, C105, C108, C109, C37, C47, C55, C57, C72, C89
		c402-25		Kemet Electronics Corporation	C0402C104K8PACTU
75	11 each	101587-1101R	PS	CAP,CER,SMT 0402,.01uF,16V,+/-10%,X7R MATL	C9, C49, C56, C77, C41, C44, C51, C52, C60, C68, C86
		c402-25		Kemet Electronics Corporation	C0402C103K4RAC
76	4 each	102058-1102R	PS	CAP,CER,SMT 0402,.001uF,50V,+/-10%,X7R MATL	C54, C58, C62, C69
		c402-25		Kemet Electronics Corporation	C0402C102K5RAC
80	22 each	101370-0001R	PS	RES,SMT 0402,0 OHM,1/16 WATT MATL	R13, R14, R24, R25, R26, R27, R28, R37, R44, R55, R71, R72, R73, R74, R75, R76, R77, R92, R62, R54, R63, R43
		r402-25		Yageo	RC0402JR-070RL
81	1 each	101370-1502R	PS	RES,SMT 0402,1.5K,5%,1/16 WATT MATL	R2
		r402-25		Yageo	RC0402JR-071K5L
82	2 each	101370-1001R	PS	RES,SMT 0402,100 OHM,5%,1/16 WATT MATL	R95, R81
		r402-25		Yageo	RC0402JR-07100RL
83	4 each	101370-1004R	PS	RES,SMT 0402,100K,5%,1/16 WATT MATL	R21, R38, R41, R45
		r402-25		Yageo	RC0402JR-07100KL

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84	21 each	101370-1003R	PS	RES,SMT 0402,10K,5%,1/16 WATT MATL	R10, R15, R16, R22, R30, R31, R32, R33, R36, R50, R52, R59, R61, R83, R84, R85, R87, R88, R90, R94, R96
		r402-25		Yageo	RC0402JR-0710KL
85	5 each	101370-2201R	PS	RES,SMT 0402,220 OHM,5%,1/16 WATT MATL	R17, R67, R68, R69, R70
		r402-25		Yageo	RC0402JR-07220RL
86	3 each	101370-2202R	PS	RES,SMT 0402,2.2K OHM,5%,1/16 WATT MATL	R5, R23, R42
		r402-25		Yageo	RC0402JR-072K2L
87	1 each	101370-2003R	PS	RES,SMT 0402,20K,5%,1/16 WATT MATL	R97
		r402-25		Panasonic	ERJ-2GEJ203X
88	2 each	101370-2204R	PS	RES,SMT 0402,220K,5%,1/16 WATT MATL	R18, R66
		r402-25		Panasonic	ERJ-2GEJ224X
89	7 each	101370-2700R	PS	RES,SMT 0402,27 OHM,5%,1/16 WATT MATL	R3, R4, R46, R47, R48, R49, R60
		r402-25		Yageo	RC0402JR-0727RL
90	1 each	101370-4701R	PS	RES,SMT 0402,470 OHM,5%,1/16 WATT MATL	R34
		r402-25		Yageo	RC0402JR-07470RL
95	1 each	102145-1003R	PS	RES,SMT 0402,10K,1%,1/16 WATT MATL	R35
		r402-25		Yageo	RC0402FR-0710KL
96	1 each	102145-1073R	PS	RES,SMT 0402,10.7K OHM,1%,1/16 WATT MATL	R98
		r402-25		Panasonic	ERJ-2RKF1072X
97	1 each	102145-1694R	PS	RES,SMT 0402,169K,1%,1/16 WATT MATL	R99
		r402-25		Panasonic	ERJ-2RKF1693X
100	3 each	100155-0001R	PS	RES,SMT 1206,0 OHM,1/8 WATT MATL	R9, R1, R100
		r1206-40x70		Yageo	RC1206JR-070RL
101	1 each	100687-1203R	PS	RES,SMT 0603,12K OHM,5%,1/16 WATT MATL	R20
		r603-35X45		Yageo	RC0603JR-0712KL
102	2 each	100687-4702R	PS	RES,SMT 0603,4.7K OHM,5%,1/16 WATT MATL	R80, R89
		r603-35X45		Yageo	RC0603JR-074K7L

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		ION Footprint		Mfr Name	Mfr P/N
105	1 each	100642-1605R	PS	RES,SMT 0603,1.6M OHM,1%,1/16 WATT MATL	R12
		r603-35x45		Panasonic	ERJ-3EKF1604V
106	2 each	100642-1694R	PS	RES,SMT 0603,169K OHM,1%,1/16 WATT MATL	R19, R65
		r603-35x45		Panasonic	ERJ-3EKF1693V
107	1 each	100642-1804R	PS	RES,SMT 0603,180K OHM,1%,1/16 WATT MATL	R11
		r603-35x45		Yageo	RC0603FR-07180KL
108	1 each	100642-2944R	PS	RES,SMT 0603,294K OHM,1%,1/16 WATT MATL	R64
		r603-35x45		Panasonic	ERJ-3EKF2943V
109	1 each	100642-3924R	PS	RES,SMT 0603,392K OHM,1%,1/16 WATT MATL	R93
		r603-35x45		Yageo	RC0603FR-07392KL
115	3 each	102598-0002R	PS	RES,SMT 1206,.02 OHM,2%,1/2 WATT MATL	R6, R7, R8
		r1206-40x70		Susumu Co., Ltd.	RL1632T-R020-G
120	2 each	103273-0001R	PS	SWITCH,SMT,PUSHBUTTON,MOMENTARY,.25 MATL	SW1, SW2
		sw-ksc4-GW		C&K/Unimax, Inc.	KSC421G70SHLFS
122	1 each	100115-0001R	PL	HEADER,1 X 1,VERTICAL,PIN SUBA	TP1
		tp1-6040			
123	1 each	100115-0002R	PL	HEADER,2 X 1,VERTICAL,PIN SUBA	JP1
		JUMP1X2-6040			
125	1 each	103136-0001R	PS	CONN,PLUG,4 POS,RIGHT ANGLE,USB TYPE A MATL	J2
		molex_48037-001		Molex	48037-0001
126	1 each	103290-0014R	PS	CONN,SMT,RECEPTACLE,14 POS.,.5mm MATL	J5
		conn14-12x30-VLL		Framatome Connectors International	10051922-1410ELF
127	1 each	101677-0001R	PS	CONN,SMT,RECEPTACLE,5 POS,RIGHT MATL	J1
		SAMTEC-MUSB		Samtec, Inc.	MUSB-05-S-B-SM-A-K-TR
128	1 each	103053-0001R	PS	CONN,SMT,RECEPTACLE,MICROSD,REVERSE MATL	J6
		molex-49225-201		Molex	49225-0821

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129	2 each	102129-0001R	PS	CONN,SMT,STEREO JACK,3.5mm MATL	J3, J4
		sj1_3515		CUI, Inc.	SJ1-3515-SMT
130	2 each	103285-0010R	PS	CONN,SMT,VERTICAL,HEADER,10X2,.225 HIGH MATL	P1, P2
		fci-87409-110		Framatome Connectors International	87409-110LF
131	1 each	103286-0001R	PS	DISPLAY,LCD,96 X 16 PIXELS,MONOCHROME MATL	XJ5
				One Stop Displays	OSD9616GLBBG01
132	1 IN	103344-1000R	PS	TAPE,DOUBLE-SIDED,FOAM,1" WIDE,1/32" MATL	XJ5
				3M Electronic Products Division	4032-1"X72YD
135	5 each	TP-NO-POP	PS	NP	TP2, TP3, TP6, TP4, TP5
		tp1-6040			
145	1 each	C0402-NOPOP	PS	NP	C115
		c402-25			
150	12 each	R0402-NOPOP	PS	NP	R29, R39, R40, R78, R79, R86, R91, R56, R57, R58, R51, R53
		r402-25			
160	1 each	R0603-NOPOP	PS	NP	R82
		r603-35X45			
161	1 each	R1206-NOPOP	PS	NP	R101
		r1206-40x70			
170	1 each	NO-POP	PS	NP	P4