

Parts List

508590-4001

ASSY,TMS320VC5509A DSK MANUAL

Type	PL	PCB Package
Revision	A	ION Footprint
Status	U	Lead-Free
Date		Bin Loc.
By		Cost

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		PCB Package		Mfr Name	Mfr P/N
1	1 each	508591-0001	DWG A	PWB,TMS320VC5509A DSK	
2	1 each	508592-0001	DOC A	LOGIC,TMS320VC5509A DSK	
6	1 each	102277-0005R	PS	IC,TQFP100,FPGA,240 GATES,MAX II,3.3V	U2
		TQFP100Z		ALTERA CORPORATION	EPM240T100C5N
7	1 each	101973-0001	PS	IC,BGA179,DSP	U1
		BGA14X14-.8MM		TEXAS INSTRUMENTS	TMS320VC5509AGHH
8	1 each	100969-0075	PS	IC,TSOP54,SDRAM,4X16,64 MEG,7.5nS	U24
		TSOP54		MICRON	MT48LC4M16A2TG-75
9	1 each	101241-0070	PS	IC,TSOP48,FLASH,70nS	U4
		TSOP48		ADVANCED MICRO DEVICES, INC.	AM29LV400BT-70EC
10	2 each	100866-0001	PS	IC,TSSOP24,10-BIT FET BUS	U12, U14
		SO24PWA		TEXAS INSTRUMENTS	SN74CBTS3384PW
11	3 each	101732-0245	PS	IC,TSSOP48,3.3V,16-BIT TRANSCEIVER	U10, U11, U8
		TSSOP48		TEXAS INSTRUMENTS	SN74LVT16245BDGGR
14	2 each	100714-0001	PS	IC,QSOP16,QUAD 2:1	U20, U21
		TSSOP16		TEXAS INSTRUMENTS	SN74CBT3257PWR
15	1 each	101326-0033	PS	IC,SO20,3.3V,1A LOW-DROPOUT VOLTAGE	U16
		PSOP20T		TEXAS INSTRUMENTS	TPS76733QPWP
17	2 each	101505-0001	PS	IC,MSOP8,DUAL OP AMP	U40, U43
		DGK8		TEXAS INSTRUMENTS	OPA2356AIDGKT
20	1 each	101495-0001	PS	IC,SO5,CHARGE PUMP,60mA	U46
		DBV5		TEXAS INSTRUMENTS	TPS60400DBV

Parts List

ASSY,TMS320VC5509A DSK MANUAL

508590-4001

Rev A

Printed 12/9/2005

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		PCB Package		Mfr Name	Mfr P/N
21	1 each	101792-0001	PS	IC,SO5,LINEAR REGULATOR	U51
		DCK5		TEXAS INSTRUMENTS	TPS71501DCKR
22	4 each	101057-0032	PS	IC,SO5,SINGLE 2-INPUT POSITIVE-OR GATE	U22, U23, U27, U28
		DCK5		TEXAS INSTRUMENTS	SN74LVC1G32DCKR
23	3 each	101027-0001	PS	IC,SO5,SINGLE SCHMITT-TRIGGER INVERTER	U29, U30, U42
		DCK5		TEXAS INSTRUMENTS	SN74AHC1G14DCKR
24	1 each	101244-0033	PS	IC,SO8,3.3V,250mA LOW-DROPOUT VOLTAGE	U25
		SO8		TEXAS INSTRUMENTS	TPS76733QD
26	2 each	101503-0001	PS	IC,SOT23-5,CURRENT SHUNT MONITOR	U44, U45
		DBV5		TEXAS INSTRUMENTS	INA139NA/250
27	1 each	102149-0001	PS	IC,SOT23-5,CURRENT SHUNT MONITOR,-16V TO	U47
		DBV5		TEXAS INSTRUMENTS	INA194AIDBVT
28	1 each	101055-0001	PS	IC,TSOP10,STEP-DOWN DC-DC CONVERTER	U26
		DGS10		TEXAS INSTRUMENTS	TPS62000DGSR
29	1 each	101907-0001	PS	IC,TSOP28,STEREO AUDIO CODEC	U307
		TSSOP28		TEXAS INSTRUMENTS	TLV320AIC23BIPWR
30	1 each	101787-0001R	PS	TRANSISTOR,SMT,DUAL LOAD SWITCH	U3
		DBV6		Fairchild Semiconductor	FDC6331L
35	3 each	100680-0001R	PS	TRANSISTOR,SOT23,MOSFET,N-CHANNEL,BSS1	Q1, Q2, Q201
		SOT23-FET		All ZETEX Pb-free product boxes and reels will have a green "Pb-free plating" label attached. ZETEX INC.	BSS138TA
45	1 each	101940-0032	PS	CRYSTAL,SMT,32.768kHz	Y3
		SSP-T6		Seiko Instruments USA Inc.	SSP-T6
50	1 each	100894-0005	PS	DIODE,MELF,ZENER,6.2V,500mW	D8
		DL-35		DIODES INC.	ZMM5234B
51	1 each	101328-0001	PS	DIODE,SMT,ULTRAFAST RECTIFIER,1A,50-600V	D9
		SMB		ON Semiconductor	MURS120T3

Parts List

ASSY,TMS320VC5509A DSK MANUAL

508590-4001

Rev A

Printed 12/9/2005

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		PCB Package		Mfr Name	Mfr P/N
52	1 each	100695-0002 LM4040-SOT23	PS	DIODE,SOT23,REFERENCE,4.1V NATIONAL SEMICONDUCTOR	D7 LM4040CIM3X-4.1
53	4 each	100185-0001 SOT23-B	PS	DIODE,SOT23,SWITCHING DIODES INC.	D2, D3, D4, D5 BAS16-7
55	5 each	100823-0001R EIA1206D	PS	LED,SMT 1206,GREEN LITEON	DS1, DS2, DS3, DS4, DS6 LTST-C150GKT
56	1 each	101088-0001 EIA1206D	PS	LED,SMT 1206,YELLOW Lumex, Inc.	DS5 SML-LX1206YC-TR
56	2 each	101590-0120 ABM7	PS	CRYSTAL,SMT,6mm,12 MHZ Citizen America Corporation	Y1, Y2 CS10-12.000MABJTR
60	2 each	101979-0030 EIA0603	PS	FERRITE BEAD,SMT 0603,30 OHMS Steward	L12, L13 MI0603K300R00
61	17 each	101228-2201R EIA0805	PS	FERRITE BEAD,SMT 0805,220 OHMS Murata Electronics	L11, L14, L15, L16, L17, L18, L19, L20, L301, L302, L303, L304, L305, L306, L307, L308, L309 BLM21PG221SN1D
62	2 each	101126-0001 SMTIND	PS	FERRITE BEAD,SMT 1806,75 OHMS Murata Electronics	L50, L52 BLM41P750SN1D
65	1 each	101018-0101 IND-DUAL	PS	INDUCTOR,SMT,10uH Sumida Electric Co., Ltd.	L10 CDRH62B-100
70	2 each	100995-0471R EIA2816P	PS	CAP,TANT,SMT 2816,47uF,10V KEMET ELECTRONICS CORPORATION	C100, C104 T491D476K010AT
71	2 each	101008-0220 EIA2816P	PS	CAP,TANT,SMT 2816,220uF,10V KEMET ELECTRONICS CORPORATION	C323, C324 T491X227K010AS
73	14 each	101003-0101 EIA1206P	PS	CAP,TANT,SMT 1206,10uF,6.3V PANASONIC	C105, C107, C109, C110, C17, C319, C325, C331, C343, C346, C347, C74, C96, C98 ECS-T0JY106R

Parts List

ASSY,TMS320VC5509A DSK MANUAL

508590-4001

Rev A

Printed 12/9/2005

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		PCB Package		Mfr Name	Mfr P/N
74	1 each	101056-0335	PS	CAP,GOLD,RADIAL, .33F,5.5V	C165
		RAD400-400C		PANASONIC	EECS0HD334H
76	6 each	101064-0221	PS	CAP,CER,SMT 1206,22uF,10V	C106, C119, C123, C137, C141, C95
		EIA1206		TAIYO YUDEN	LMK316F226ZL-T
80	1 each	101205-0100	PS	CAP,CER,SMT 0805,1uF,10V,X5R,+/-10%	C126
		EIA0805		PANASONIC	ECJ-2YB1A105K
86	33 each	100993-1101	PS	CAP,CER,SMT 0603,.01uF,50V,+/-10%,X7R	C122, C129, C132, C134, C138, C151, C164, C166, C167, C168, C169, C170, C171, C172, C77, C78, C79, C8, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94
		EIA0603		AVX CORPORATION	06035C103KAT2A
87	54 each	100994-1100R	PS	CAP,CER,SMT 0603,.1uF,16V,+/-10%,X7R	C1, C10, C101, C11, C111, C114, C115, C116, C117, C118, C12, C127, C13, C130, C133, C135, C139, C14, C140, C146, C15, C152, C163, C2, C3, C322, C326, C332, C341, C342, C4, C5, C52, C53, C54, C55, C56, C57, C58, C59, C6, C60, C61, C62, C63, C64, C65, C66, C7, C70, C71, C72, C75, C76
		EIA0603		KEMET ELECTRONICS CORPORATION	C0603C104K4RAC
88	4 each	101007-1470R	PS	CAP,CER,SMT 0603,.47uF,6.3V,X5R,+/-10%	C333, C334, C337, C338
		EIA0603		PANASONIC	ECJ-1VB0J474K
89	2 each	101001-1104	PS	CAP,CER,SMT 0603,10pF,50V,+/- .5pF,NPO	C120, C124
		EIA0603		PANASONIC	ECU-V1H100DCV
91	9 each	101007-0100R	PS	CAP,CER,SMT 0603,1uF,6.3V,X5R,+/-10%	C102, C128, C131, C136, C142, C143, C144, C145, C315
		EIA0603		PANASONIC	ECJ-1VB0J105K
92	2 each	101002-1394	PS	CAP,CER,SMT 0603,39pF,50V,+/-5%,NPO	C121, C125
		EIA0603		PANASONIC	ECU-V1H390JCV

Parts List

ASSY,TMS320VC5509A DSK MANUAL

508590-4001

Rev A

Printed 12/9/2005

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		PCB Package		Mfr Name	Mfr P/N
93	2 each	101002-1474 EIA0603	PS	CAP,CER,SMT 0603,47pF,50V,+/-5%,NPO PANASONIC	C321, C99 ECU-V1H470JCV
100	2 each	101069-1003 EXB-2HVS	PS	RES,NETWORK,SMT,16 PIN,8 RES,10K PANASONIC	RN1, RN31 EXB-2HV103JV
101	1 each	101069-2202 EXB-2HVS	PS	RES,NETWORK,SMT,16 PIN,8 RES,2.2K PANASONIC	RN12 EXB-2HV222JV
102	6 each	101069-3300 EXB-2HVS	PS	RES,NETWORK,SMT,16 PIN,8 RES,33 PANASONIC	RN21, RN22, RN23, RN27, RN29, RN30 EXB-2HV330JV
105	6 each	101327-1003 EXB-28VS	PS	RES,NETWORK,SMT,8 PIN,4 RES,10K PANASONIC	RN11, RN17, RN18, RN28, RN314, RN315 EXB-28V103JX
106	1 each	101327-1002 EXB-28VS	PS	RES,NETWORK,SMT,8 PIN,4 RES,1K PANASONIC	RN13 EXB-28V102JX
107	6 each	101327-3300 EXB-28VS	PS	RES,NETWORK,SMT,8 PIN,4 RES,33 PANASONIC	RN2, RN24, RN25, RN26, RN316, RN8 EXB-28V330JX
111	1 each	100687-1602 EIA0603	PS	RES,SMT 0603,1.6K OHM,5%,1/16 WATT PANASONIC	R69 ERJ-3GEYJ162V
112	2 each	100687-1000 EIA0603	PS	RES,SMT 0603,10 OHM,5%,1/16 WATT PANASONIC	R103, R140 ERJ-3GEYJ100V
113	22 each	100687-1003 EIA0603	PS	RES,SMT 0603,10K OHM,5%,1/16 WATT KOA SPEER ELECTRONICS, INC.	R10, R100, R101, R108, R11, R147, R2, R20, R24, R25, R3, R59, R60, R61, R67, R7, R73, R75, R80, R81, R83, R92 RM73B1JT103J
114	6 each	100687-1501 EIA0603	PS	RES,SMT 0603,150 OHM,5%,1/16 WATT PANASONIC	R13, R14, R15, R16, R17, R68 ERJ-3GEYJ151V
115	4 each	100687-1002 EIA0603	PS	RES,SMT 0603,1K OHM,5%,1/16 WATT KOA SPEER ELECTRONICS, INC.	R64, R8, R9, R97 RM73B1JT102J

Parts List

ASSY,TMS320VC5509A DSK MANUAL

508590-4001

Rev A

Printed 12/9/2005

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		PCB Package		Mfr Name	Mfr P/N
116	1 each	100687-0220 EIA0603	PS	RES,SMT 0603,2.2 OHM,5%,1/16 WATT PANASONIC	R344 ERJ-3GEYJ2R2V
117	2 each	100687-2202 EIA0603	PS	RES,SMT 0603,2.2K OHM,5%,1/16 WATT PANASONIC	R325, R72 ERJ-3GEYJ222V
119	2 each	100687-2700 EIA0603	PS	RES,SMT 0603,27 OHM,5%,1/16 WATT PANASONIC	R150, R151 ERJ-3GEYJ270V
120	1 each	100687-3004 EIA0603	PS	RES,SMT 0603,300K OHM,5%,1/16 WATT KOA SPEER ELECTRONICS, INC.	R152 RM73B1JT304J
121	12 each	100687-3300 EIA0603	PS	RES,SMT 0603,33 OHM,5%,1/16 WATT KOA SPEER ELECTRONICS, INC.	R109, R345, R4, R62, R65, R66, R70, R71, R76, R77, R78, R82 RM73B1JT33RJ
122	4 each	100687-3601 EIA0603	PS	RES,SMT 0603,360 OHM,5%,1/16 WATT PANASONIC	R46, R47, R48, R86 ERJ-3GEYJ361V
123	5 each	100687-4702 EIA0603	PS	RES,SMT 0603,4.7K OHM,5%,1/16 WATT KOA SPEER ELECTRONICS, INC.	R326, R334, R335, R336, R337 RM73B1JT472J
124	4 each	100687-4703 EIA0603	PS	RES,SMT 0603,47K OHM,5%,1/16 WATT KOA SPEER ELECTRONICS, INC.	R332, R333, R341, R342 RM73B1JT473J
125	1 each	100687-6804 EIA0603	PS	RES,SMT 0603,680K OHM,5%,1/16 WATT PANASONIC	R155 ERJ-3GSYJ684V
130	9 each	100687-0001 EIA0603	PS	RES,SMT 0603,0 OHM,1/16 WATT KOA SPEER ELECTRONICS, INC.	R102, R104, R106, R179, R312, R327, R331, R338, R343 RM73Z1J000
131	1 each	100642-1502 EIA0603	PS	RES,SMT 0603,1.5K OHM,1%,1/16 WATT PANASONIC	R156 ERJ-3EKF1501V
132	2 each	100642-1001 EIA0603	PS	RES,SMT 0603,100 OHM,1%,1/16 WATT ROHM CORPORATION	R339, R340 MCR03F1000EZP

Parts List

ASSY,TMS320VC5509A DSK MANUAL

508590-4001

Rev A

Printed 12/9/2005

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		PCB Package		Mfr Name	Mfr P/N
133	4 each	100642-1004 EIA0603	PS	RES,SMT 0603,100K OHM,1%,1/16 WATT ROHM CORPORATION	R146, R26, R54, R56 MCR03F1003EZP
134	4 each	100642-1003 EIA0603	PS	RES,SMT 0603,10K OHM,1%,1/16 WATT PANASONIC	R134, R138, R142, R144 ERJ-3EKF1002V
137	2 each	100642-1002 EIA0603	PS	RES,SMT 0603,1K OHM,1%,1/16 WATT PANASONIC	R132, R136 ERJ-3EKF1001V
138	4 each	100642-1005 EIA0603	PS	RES,SMT 0603,1M OHM,1%,1/16 WATT PANASONIC	R158, R161, R162, R181 ERJ-3EKF1004V
139	3 each	100642-2003 EIA0603	PS	RES,SMT 0603,20K OHM,1%,1/16 WATT PANASONIC	R189, R190, R191 ERJ-3EKF2002V
140	2 each	100642-2214 EIA0603	PS	RES,SMT 0603,221K OHM,1%,1/16 WATT PANASONIC	R145, R55 ERJ-3EKF2213V
141	1 each	100642-2002 EIA0603	PS	RES,SMT 0603,2K OHM,1%,1/16 WATT ROHM CORPORATION	R27 MCR03F2001EZP
144	1 each	100642-3244 EIA0603	PS	RES,SMT 0603,324K OHM,1%,1/16 WATT PANASONIC	R180 ERJ-3EKF3243V
146	2 each	100642-4990 EIA0603	PS	RES,SMT 0603,49.9 OHM,1%,1/16 WATT PANASONIC	R18, R19 ERJ-3EKF49R9V
147	1 each	100642-6043 EIA0603	PS	RES,SMT 0603,60.4K OHM,1%,1/16 WATT PANASONIC	R57 ERJ-3EKF6042V
148	3 each	100642-7500 EIA0603	PS	RES,SMT 0603,75 OHM,1%,1/16 WATT PANASONIC	R131, R135, R141 ERJ-3EKF75R0V
150	2 each	101971-0010 EIA0603	PS	RES,SMT 0603,.1 OHM,1%,1/10 WATT PANASONIC	R139, R51 ERJ-3RSFR10V
160	2 each	100581-1004 EIA0805	PS	RES,SMT 0805,100K OHM,1%,1/10 WATT KOA SPEER ELECTRONICS, INC.	R133, R137 RK73H2AT1003F

Parts List

ASSY,TMS320VC5509A DSK MANUAL

508590-4001

Rev A

Printed 12/9/2005

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		PCB Package		Mfr Name	Mfr P/N
170	1 each	100830-0025	PS	RES,SMT 2512,.025 OHM,1%,1W	R52
		EIA2512		Vishay Intertechnology	WSL-2512-.025
175	1 each	101307-0004	PS	SWITCH,SMT DIP,SIDE,4 POS	S2
		TI_SMTDIPSW8R		CTS ELECTRONICS CORPORATION	193-4MSR
176	2 each	101215-0001	PS	SWITCH,SMT,PUSHBUTTON,MOMENTARY,6mm	S1, S4
		101215		PANASONIC	EVQP1B05M
177	1 each	101184-0004	PS	SWITCH,DIP,SMT,HALF-PITCH,4 POS.	S3
		SMTDIPSW4A		C&K/UNIMAX, INC.	TDA04H0SK1
180	1 each	101017-0001	PS	CONN,RECEPTACLE,4 POS,RIGHT	J10
		787780		Tyco Electronics	787780-1
182	1 each	101238-0001	PS	CONN,SMT,JACK,RIGHT ANGLE,POWER,2.5mm	J5
		RASM712		SWITCHCRAFT	RASM712TR15
183	4 each	101012-0001	PS	CONN,SMT,JACK,STEREO,4 POS.,3.6mm	J301, J302, J303, J304
		ST-3500		KYCON CABLE & CONNECTOR, INC.	ST-3500-4N
184	1 each	100562-0005	PS	CONN,SMT,VERTICAL,RECEPTACLE,5X2	JP1
		SMTCON5X2A		SAMTEC, INC.	SFM-105-02-S-D-A
185	2 each	100562-0040	PS	CONN,SMT,VERTICAL,RECEPTACLE,40X2	P1, P2
		SMTCON40X2A		SAMTEC, INC.	SFM-140-02-S-D-LC
190	3 each	100115-0002	PL	HEADER,2 X 1,VERTICAL,PIN	JP2, JP3, JP6
		CON2		SPECTRUM DIGITAL INC.	
192	1 each	100116-0007	PL	HEADER,7 X 2,VERTICAL,PIN	J7
		CON7X2		SPECTRUM DIGITAL INC.	
195	1 each	100606-0001	PS	BUMPER,CYLINDRICAL,SELF-STICK,BLACK,.5	
				3M ELECTRONIC PRODUCTS DIV.	SJ-5012(BLACK)

Parts List

ASSY,TMS320VC5509A DSK MANUAL

508590-4001

Rev A

Printed 12/9/2005

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		PCB Package		Mfr Name	Mfr P/N
200	26 each	0603-NOPOP	PS		C103, C108, C112, C113, C148, C149, C16, C316, C317, C318, C320, C327, C328, C329, C330, C335, C336, C339, C340, C344, C345, R328, R5, R63, R98, R99
EIA0603					
202	24 each	NO-POP	PS		J6, L21, L51, M1, M2, M3, M4, R105, R21, TP1, TP10, TP11, TP12, TP13, TP14, TP2, TP3, TP4, TP401, TP5, TP6, TP7, TP8, TP9
NO-POP					