

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
				Manufacturer	Manufacture Part No.	
2	4	153-01023-0002	1	Capacitor	47uF, 16V, 10%, 150-mohm ESR, Tantalum, SMT 7343	CT5, CT15, CT19, CT22
				AVX	TPSD476K016R0150	
				SMEC	ESR150-47K16D	
1	16	153-01015-0001	1	Capacitor	10uF, 10V, 20%, Tantalum, SMT 6032	CT1, CT2, CT3, CT4, CT6, CT9, CT10, CT11, CT12, CT16, CT17, CT18, CT20, CT21, CT23, CT502
				AVX	TAJC106M010R	
				Panasonic	ECS-H1AC106R	
				SMEC	TCC10M10C	
				Venkel	TA010TCM106MCR	
3	5	153-01027-0002	1	Capacitor	1uF, 25V, 10%, Tantalum, SMT 1206	CT7, CT14, CT500, CT501, CT503
				SMEC	TCC1K25A	
				Venkel	TA025TCM105KAR	
4	2	153-01019-0002	1	Capacitor	330uf, 6.3V, 20%, Tantalum, low ESR, SMT 7343	CT8, CT13
				Venkel	TA6R3TCR337MER	
6	79	157-01071-0003	1	Capacitor	0.1uF, 16V, 10%, X7R, SMT 0603	C4, C6, C7, C8, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C52, C53, C54, C55, C60, C61, C63, C64, C65, C66, C67, C71, C72, C73, C74, C75, C79, C88, C89, C90, C92, C93, C94, C98, C104, C112, C115, C116, C118, C119, C120, C123, C500, C505, C511, C516, C517, C518, C519
				Notes:		

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
				Manufacturer	Manufacture Part No.	
				AVX	0603YC104KAT2A	
				MuRata	GRM39X7R104K016AD	
				SMEC	MCCA104K1NR-T1	
				Venkel	C0603X7R160-104KNE	
5	55	157-01004-0002	1	Capacitor	0.01uF, 50V, 10%, X7R, SMT 0603	C1, C2, C3, C5, C9, C10, C22, C34, C35, C36, C51, C56, C57, C58, C59, C62, C68, C69, C76, C77, C81, C82, C83, C84, C85, C86, C87, C91, C96, C99, C100, C101, C102, C105, C107, C111, C113, C117, C124, C125, C126, C127, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532
				Notes:		
				NIC	NMC0603X7R103K50TRP	
				Panasonic	ECU-V1H103KBV	
				Venkel	C0603X7R500-103KNE	
7	2	157-01003-0005	1	Capacitor	0.047uF, 16V, 10%, X7R, SMT 0603	C70, C78
				Notes:		
				AVX	0603YC473KAT2A	
				MuRata	GRM39X7R473K016AD	
				SMEC	MCCC474K3NR-T2	
				Venkel	C0603X7R160-473KNE	
9	13	157-01073-0004	1	Capacitor	0.47uF, 25V, 5%, XR7, SMT 0805	C95, C103, C106, C114, C501, C504, C506, C508, C509, C510, C512, C513, C515
				Notes:		
				Venkel	TA025TCM105KAR	
10	1	155-01006-0003	1	Capacitor	47pF, 50V, 2%, NPO, SMT 0603	C97
				Notes:		
				Cal-Chip	GMC10CG470G50NT	
				Venkel	C0603COG500-470GNE	
8	3	151-01010-0001	1	Capacitor	220pF, 2kV, 10%, Thru-Hole 5mm	C80, C109, C110

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
				Manufacturer	Manufacture Part No.	
		Notes:				
				Panasonic	ECK-D3D221KBP	
11	2	155-01013-0002	1	Capacitor	22pF, 5%, 50V, NPO, SMT 0805	C121, C122
		Notes:				
				Panasonic	ECU-V1H220JCN	
				SMEC	MCCE220J2N0	
				Venkel	C0805COGR500-220JNE	
12	3	155-01001-0001	1	Capacitor	56pF, 50V, 5%, NPO, SMT 0805	C502, C503, C507
		Notes:				
				AVX	08055A560JATMA	
				Panasonic	ECU-V1H560JCG	
				Venkel	C0805COG500-560JNE	
13	3	371-01027-0001	1	Diode	LED, Yellow, SMT 1206	D1, D2, D3
		Notes:				
				Lumex Opto	SML-LX1206YC-TR	
15	8	481-01000-0001	1	Diode	High-Speed Switching, SOT-23, SMT	D5, D6, D7, D500, D501, D502, D503, D504
		Notes:				
				Fairchild	MMBD4148	
				Motorola	MMBD914LT1	
				National Semi	MMBD4148 (1P-49)	
				Vishay-Dale	MMBD4148	
14	1	371-01028-0001	1	Diode	LED, Green, SMT 1206	D4
		Notes:				
				Lumex Opto	SML-LX1206GC-TR	
17	2	214-01004-0001	1	Header	2-Position, 1-Row, 0.1" Centers, Straight Thru-Hole	JP2, JP3
		Notes:				
				Samtec	TSW-102-07-G-S	
16	1	214-01021-0001	1	Header	3-Position, 1-Row, 0.1" Centers, Straight Thru-Hole	JP1
		Notes:				

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
					Manufacturer	Manufacture Part No.
					Berg	68001-103
					Samtec	TSW-103-07-G-S
18	1	214-01034-0001	1	Header	7-Position, 2-Row, 0.1" Centers, Straight Thru-Hole	J1
		Notes:			Samtec	TSW-107-14-G-D-006
20	3	214-01030-0001	1	Connector	80-pin, .05x.05", SMT	J3, J5, J10
		Notes:			Samtec	SFM-140-L2-S-D-LC
22	3	209-01000-0001	1	Connector	Audio Jack, 3.5mm, Stereo, Thru-Hole	J6, J8, J9
		Notes:			Kycon	ST-3120-5B
21	1	206-01000-0001	1	Connector	Power Jack, 2.5mm, Right Angle, Thru-Hole	J4
		Notes:			RDI/Augat Switchcraft	RDJ-001-B RAPC712
23	1	206-01008-0001	1	Connector	Power Jack, 4-pin, Right Angle, Thru-Hole	J7
		Notes:			Molex	53109-0410
19	1	214-01032-0001	1	Header	5-Position, 2-Row, 0.1" Centers, Straight Thru-Hole	J2
		Notes:			Samtec	TSW-105-07-G-D
24	5	185-01003-0001	1	Inductor	Ferrite Bead, 600 ohm, 500 mA, SMT 0805	L1, L2, L3, L502, L503,
		Notes:			Inductor Supply Inc.	LCB0805H-601
					Steward	HZ0805E601R
28	6	477-01006-0001	1	Resistor Network	Bussed, 10K, 10-pin, Leadless SMT	RN1, RN2, RN3, RN4, RN5, RN6
		Notes:			CTS	745-101-103J
					CTS	745C-101-103-JTR
29	4	479-01037-0001	1	Resistor	150 Ohm, 5%, 1/10W, SMT 0805	R1, R2, R3, R656

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
				Manufacturer	Manufacture Part No.	
Notes:				AVX	CR21-151J-T	
				Panasonic	ERJ-6GEYJ151V	
				Venkel	CR0805-10W-151JT	
30	48	479-00014-0001	1	Resistor	10K, 5%, 1/16W, SMT 0603	R4, R5, R6, R7, R10, R21, R23, R25, R500, R502, R503, R505, R506, R507, R508, R514, R515, R530, R531, R533, R534, R536, R537, R541, R542, R545, R548, R550, R551, R566, R567, R568, R577, R592, R599, R607, R609, R615, R616, R619, R624, R634, R635, R636, R637, R645, R654, R660
Notes:				Beckman	BCR1/16-103JT	
				Panasonic	ERJ-3GSYJ103V	
				Venkel	CR0603-16W-103JT	
31	33	479-01159-0001	1	Resistor	360 Ohm, 5%, 1/16W, SMT 0603	R8, R9, R22, R24, R26, R30, R35, R36, R38, R509, R510, R538, R539, R540, R543, R544, R546, R549, R558, R561, R570, R571, R572, R576, R578, R579, R582, R598, R622, R628, R641, R643, R651
Notes:				AVX	CR10--361J	
				Panasonic	ERJ-6GEYJ361V	
				Venkel	CR0603-16W-361JT	
33	2	479-01208-0001	1	Resistor	20.5K, 1%, 1/10W, SMT 0805	R12, R18
Notes:				AVX	CR21-2052FT	
				Venkel	CR0805-10W-2052FT	
39	5	479-01177-0001	1	Resistor	470 Ohm, 5%, 1/16W, SMT 0603	R501, R556, R559, R583, R605
Notes:						

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
				Manufacturer	Manufacture Part No.	
				Panasonic Venkel	ERJ-3GSYJ471 CR0603-16W-471JT	
32	10	479-00043-0001	1	Resistor	0 Ohm, 5%, 1/16W, SMT 0603	R11, R29, R32, R34, R37, R40, R521, R555, R626, R632
				Notes:		
				KOA Panasonic Venkel	RM73Z1J ERJ-3GSY0R00V CR0603-16W-000T	
34	3	479-00006-0001	1	Resistor	1K, 5%, 1/10W, SMT 0805	R13, R14, R658
				Notes:		
				SMEC Panasonic Venkel	RC73L2A 1K OHM JT ERJ-6GEYJ102V CR0805-10W-102JT	
35	2	479-01086-0003	1	Resistor	20K, 1%, 1/16W, SMT 0603	R15, R16
				Notes:		
				NIC Venkel	NRC06F2002TR CR0603-10W-2002FT	
36	2	479-01023-0003	1	Resistor	10 Ohm, 5%, 0.25W, SMT 1206	R17, R20
				Notes:		
				Venkel	CR1206-4W-100JT	
37	43	479-01074-0001	1	Resistor	33.2 Ohm, 1%, 1/16W, SMT 0603	R19, R504, R513, R522, R526, R532, R535, R553, R554, R557, R560, R562, R563, R564, R569, R575, R580, R584, R585, R586, R587, R588, R589, R590, R591, R593, R594, R597, R600, R601, R602, R603, R608, R611, R613, R614, R618, R620, R621, R625, R627, R639, R661
				Notes:		
				SMEC Panasonic Venkel	RC73A2X 33.2 OHMFT ERJ-3EKF33.2 CR0603-16W-33R2FT	
38	1	479-01045-0002	1	Resistor	10M Ohm, 5%, 1/16W, SMT 0603	R33

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
					Manufacturer Manufacture Part No.	
		Notes:				
				AVX	CR10-106JT	
				Venkel	CR0603-16W-106JT	
40	13	474-01117-0001	1	Resistor	10K, 1%, 1/10W, SMT 0603	R596, R604, R606, R610, R612, R617, R623, R629, R630, R631, R638, R646, R648
		Notes:				
				AVX	CR10-1002F	
				Panasonic	ERJ-3EKF1002	
				Venkel	CR0603-10W-1002FT	
41	3	479-01026-0001	1	Resistor	2.7K Ohm, 5%, 1/10W, SMT 0805	R640, R642, R652
		Notes:				
				AVX	CR21-272J-T	
				Panasonic	ERJ-6GEYJ272V	
				Venkel	CR0805-10W-272JT	
42	1	474-01133-0001	1	Resistor	30.1K Ohm, 1%, 1/10W, SMT 0805	R649
		Notes:				
				AVX	CR21-3012F-T	
				Panasonic	ERJ-6ENF3012V	
				Venkel	CR0805-10W-3012FT	
43	1	479-01180-0001	1	Resistor	10.5K Ohm, 1%, 1/16W, SMT 0603	R650
		Notes:				
				Dale	CRCW06031052F	
				Venkel	CR0603-16W-1052FT	
44	1	479-01089-0001	1	Resistor	71.5K Ohm, 1%, 1/10W, SMT 0805	R653
		Notes:				
				Dale	CRCW0805-7152FRT1	
				Panasonic	ERJ-6ENF7152	
				Venkel	CR0805-10W-7152FT	
45	1	479-01209-0001	1	Resistor	5.9K Ohm, 1%, 1/16W, SMT 0603	R655
		Notes:				
				AVX	CR10-5901FT	
				Venkel	CR0603-16W-5901FT	
46	1	479-01083-0001	1	Resistor	5.11K Ohm, 1%, 1/10W, SMT 0805	R657
		Notes:				

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail		References
					Manufacturer	Manufacture Part No.	
47	1	512-01003-0001	1	Switch	Panasonic	ERJ-6ENF5111V	SW1
					CR0805-10W-5111FT	CR0603-16W-106JT	
					Pushbutton, Momentary, Thru Hole		
Notes:					C&K Components	KT11P2CM	
48	1	512-01011-0001	1	Switch		DIP Switch, 8-Position, DIP-16, Side-Actuated, Thru-Hole	SW2
					C&K Components	BP08KT	
					CTS	194-8MST	
49	17	218-01001-0001	1	Test		Test Point, SMT 1206	TC1, TC2, TC3, TC4, TC6, TC7, TC8, TC9, TC10, TC11, TC12, TC13, TC14, TC15, TC16, TC17, TC18
					Notes:	Components Corp.	
51	1	312-01123-0001	1	IC		Inverter, Ultra High Speed, Single, TinyLogic, SOT23-5	U1
					National Semi	NC7SZ04M5	
					Toshiba	TC7SHU04	
58	4	312-01277-0001	1	IC		FET Bus Switch, 24-Bit, 5V, 10ns, TSSOP-56	U15, U18, U21, U27
					IDT	IDT74FST163211PA	
					Pericom	PI5C16211A	
Notes:					Texas Instruments	SN74CBTD16211DGG	
54	3	312-01280-0001	1	IC		Quad Bus Buffer, Noninverting, 3State Output, 3.3V, 6ns, TSSOP14	U6, U7, U29
					Fairchild	74LCX125MTC	
					Motorola	MC74LCX125DT	
Notes:					Texas Instruments	SN74LVTH125PW	
55	8	312-01173-0001	1	IC		Bus Transceiver, 3.3V, 300mil, 16-Bit,	U8, U9, U10, U11, U14, U16, U20, U24
					TSSOP-48		

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
				Manufacturer	Manufacture Part No.	
				Texas Instruments	SN74LVTH16245ADGGR	
56	2	312-01286-0002	1	IC	Flash Memory, 256Kx16 (4Mbit), 3.3V, 90ns, SMT TSOP-48	U12, U19
				AMD	AM29LV400BT-90EC	
				ST Micro	M29W400BT90-N1	
52	3	312-01106-0001	1	IC	Quad 2-to-1 Multiplexer, SMT SOIC-16	U2, U3, U4
				Pericom	PI5C3257W	
				IDT	QS3257S1	
				Texas Instruments	SN74CBT3257D	
59	1	312-01288-0002	1	IC	SBSRAM, 256Kx36, 133MHz, 7.5ns, 3.3V SMT TQFP-100	U17
				Micron	MT58L256L36PT-7.5	
57	1	312-01052-0001	1	IC	JTAG Controller, SMT PLCC-44	U13
				Texas Instruments	SN74ACT8990FN	
60	2	311-01079-0001	1	IC	Audio Amplifier, 5-15V, 300 KHz, SOIC-8	U22, U23
				National Semi	LM386M-1	
61	2	311-01040-0001	1	IC	Op Amp, Dual, Rail-to-Rail, SOIC-8	U25, U28
				Texas Instruments	TLC2272AIDR	
				Texas Instruments	TLC2272ACD	
62	1	312-01276-0001	1	IC	DSP, 3.3V, 200 MHz, BGA-240	U26
				Texas Instruments	TMS320VC5510	
53	1	315-01048-0001	1	IC	CPLD, ISR, 256 Macrocell, 3.3V, 100 MHz, TQFP-160	U5
				Cypress	CY37256VP160-100AC	
64	1	312-01314-0001	1	IC	Codec, Stereo, AC97, 3.3V/5V, 18-Bit, TQFP-48	U31
				Texas Instruments	TLV320AIC27CPFB	

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
					Manufacturer Manufacture Part No.	
63	1	311-01060-0001	1	IC	Analog Switch, 150mil, SPDT, SOIC-16	U30
		Notes:				
				Pericom	PI5A383AW	
66	1	312-01174-0001	1	IC	PCI/DSP Bridge Controller, TQFP-144	U33
		Notes:				
				Texas Instruments	PCI2040PGE	
68	1	230-01018-0001	1	IC	Oscillator, 20 MHz, 5V	U35
		Notes:				
				Epson	SG615P-20.0000MC	
67	1	311-01081-0001	1	IC	Voltage Regulator, Dual, Low-Dropout, 3.3V and Adjustable, 1A, TSSOP-28	U34
		Notes:				
				Texas Instruments	TPS767D301PWP	
69	1	311-01062-0001	1	IC	Processor Supervisory Circuit, SOIC-8	U36
		Notes:				
				Texas Instruments	TPS3707-33D	
70	1	312-01170-0001	1	IC	EEPROM, Serial, 2-Wire, 512x8, SOIC-8	U37
		Notes:				
				Atmel	AT24C04N-10SC-2.7	
71	2	312-01107-0002	1	IC	Bus Switch, Level Conversion, 10-Bit, TSSOP-24	U38, U40
		Notes:				
				Texas Instruments	SN74CBTD3384PWR	
72	1	311-01080-0001	1	IC	Voltage Regulator, 3.3V, 1A, Low-Dropout, TSSOP-20	U39
		Notes:				
				Texas Instruments	TPS76733QPWP	
65	0	312-01348-0001	1	IC	Programable Frequency Multiplier, 160MHz, 3V, STM QSOP-16	U32
		Notes:				
				IDT	QS5925Q	
73	1	230-01024-0002	1	Crystal	24.576 MHz, 50ppm, 18pf, ceramic, STM SOIC-4	Y1
		Notes:				
				Epson	MA-306-24.576M-C2	

Engineering Bill Of Materials

TMX320VC5510 Prototype Board

D601030-0001 Rev C

Item	Qty	Part Number	Rev	Title	Detail	References
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74	1	143-01001-0002	1	Other		PCI Bracket, 3x .325 Circle, 1x .125 Circle, Stamped
		Notes:			Gomph	9334-0317LC
75	2	252-01002-0001	1	Other		Machine Screw, #4-40x3/16", Phillips Panhead,Stainless Steel
		Notes:				
76	3	214-01023-0002	1	Connector		2x1 Shunt, .100" Center, Black, Gold Plated
		Notes:			Berg	68786-102
					Crane	JUN02SS-G0A
					Samtec	SNT-100-BK-G