

Bill of Materials

AM572x EVM Processor Module BOM

Item	Qty	Description	Manufacturer	Part Number	Reference Designator
1	1	PCB,AM572x MAIN BOARD	GENR	TI_AM572x_PM_RevA2_Gerbers	PCB1
2	3	0805,0.1UF,25V,X7R,10%	AVX	0805SC104KAT2A	C1, C7, C401
3	8	0402,0.01UF,16V,X7R,10%	AVX	0402V0103KAT2A	C415, C417, C418, C420, C454, C455, C456, C457
4	8	2312,100UF,10V,10%	AVX	TP5C107N010R0150	C2, C8, C9, C403, C404, C406, C411, C413
5	7	1210,4.7UF,50V,X7R,10%	MURATA	GRM32ER71H475KAB8L	C3, C14, C402, C438, C439, C440, C445
6	3	0201,8200PF,10V,X5R,10%	AVX	0201ZD822KAT2A	C4, C13, C408
7	2	0402,22PF,50V,COG/NP0,5%	MURATA	GRM1555C1H220J01D	C5, C409
8	8	0402,1000PF,50V,X7R,10%	KEMET	C0402C102K5RACU	C6, C197, C237, C245, C390, C391, C410, C429
9	3	0805,220PF,50V,X7R,10%	YAGEO	CC0805KR7R98B8221	C10, C109, C112
10	1	0805,820PF,50V,X7R,10%	YAGEO	CC0805KR7R98B821	C11
11	1	0402,470PF,50V,X7R,10%	MURATA	GRM15507H471KAD1D	C443
12	1	0805,15PF,50V,COG/NP0,5%	YAGEO	CC0805JRN0P98N150	C12
13	74	0402,0.1UF,16V,Y5V,-20/+80%	TAIYO_YUDEN	EMK105F104ZV-F	C15, C16, C30, C81, C94, C97, C99, C104, C105, C108, C110, C111, C446, C207, C209, C211, C213, C215, C216, C447, C222, C224, C225, C228, C230, C231, C239, C241, C242, C244, C247, C248, C252, C253, C258, C259, C262, C263, C264, C270, C272, C274, C334, C388, C392, C398, C399, C405, C407, C412, C414, C415, C419, C422, C423, C424, C425, C426, C427, C428, C430, C433, C434, C441, C448, C449, C450, C451, C478, C472, C473, C474, C475, C477
14	21	0402,2.2UF,6.3V,X5R,10%	AVX	04026D225KAT2A	C17, C18, C19, C20, C21, C22, C24, C25, C26, C27, C28, C29, C63, C80, C92, C446, C255, C256, C267, C496, C500
15	44	0603,10UF,6.3V,X5R,20%	TAIYO_YUDEN	JMK107AB106MAHT	C23, C50, C53, C54, C113, C122, C130, C131, C189, C190, C202, C208, C210, C212, C223, C226, C227, C238, C249, C254, C257, C271, C295, C312, C327, C341, C350, C361, C369, C387, C389, C393, C394, C395, C396, C397, C431, C432, C436, C437, C442, C481, C494, C497
16	2	0402,10PF,50V,COG/NP0,5%	MURATA	GRM1555C1H10J0201D	C31, C32
17	18	0402,4.7UF,6.3V,X5R,20%	MURATA	GRM155R60475ME47D	C33, C35, C37, C39, C41, C43, C45, C46, C48, C64, C70, C163, C179, C261, C265, C268, C206, C221
18	14	1206,47UF,6.3V,X5R,20%	MURATA	GRM31CR60476ME19L	C34, C36, C38, C40, C42, C44, C47, C49, C205, C214, C220, C229, C250, C251
19	103	0201,0.1UF,6.3V,X5R,20%	MURATA	GRM033R60104ME19D	C51, C55, C57, C58, C59, C60, C61, C62, C66, C67, C68, C69, C71, C72, C73, C74, C75, C76, C77, C82, C83, C84, C85, C86, C87, C95, C96, C98, C114, C115, C116, C117, C118, C119, C120, C121, C123, C124, C125, C126, C127, C128, C129, C132, C133, C134, C135, C136, C137, C138, C139, C140, C157, C158, C159, C160, C169, C170, C173, C174, C175, C176, C177, C178, C181, C182, C183, C184, C185, C186, C187, C188, C191, C192, C193, C194, C195, C196, C198, C199, C200, C201, C203, C204, C236, C243, C273, C421, C470, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C498, C499
20	119	0201,0.22UF,6.3V,X5R,20%	TDK	C0603X5R0J224M0308B	C52, C56, C78, C88, C89, C161, C162, C165, C166, C167, C168, C171, C172, C266, C269, C275, C276, C277, C278, C279, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C292, C293, C294, C296, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C328, C329, C330, C331, C332, C333, C335, C336, C337, C338, C339, C340, C342, C343, C344, C345, C346, C347, C348, C349, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C362, C363, C364, C365, C366, C367, C368, C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386
21	2	0201,0.47UF,4V,X5R,20%	TAIYO_YUDEN	AMK063B474MP-F	C65, C79
22	20	0201,1UF,4V,X5R,20%	TDK	C0603X5R0G105M030BC	C90, C91, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C164, C260, C471
23	3	0805,22UF,6.3V,X5R,20%	TAIYO_YUDEN	JMK212B1226MG-T	C93, C156, C180
24	140	0402,18PF,50V,COG/NP0,5%	AVX	0402S41801AT2A	C100, C101, C217, C218, C232, C233, C235, C240, C102, C103
25	1	0402,10PF,10V,COG/NP0,-/-,25PF	KEMET	C0402C100CBGACTU	C400
27	3	SCHOTTKY,ADV,5A,DO-221AC	MICRO_CD	SK54AFL-TP	D1, D2, D24
28	6	0603,RED/ORAN/CLEAR	LITEON	LTST-1191KFKT	D3, D4, D5, D6, D7, D41
29	4	0603,TVS,24VWM,45VC	TE_CONN	PESD0603-240	D8, D9, D10, D11
30	8	TVS,5.5VWM,14VC,2X2SON	Texas Instruments	TPD1E05U06DPPR	D12, D13, D14, D15, D16, D17, D18, D19
31	4	ESD PROTECTION,ARRAY,2CH,SOT-5	Texas Instruments	TPD2E001DRL	D20, D21, D22, D23
32	7	0805,150R,800MA	LAIRD_S	U0805R151R-10	F81, F83, F84, F85, F87, F88, F89
33	4	CHOKE COIL,COMMON MODE,280MA,SMD	MURATA	DLW21234009HQ2	F11, F12, F13, F14
34	1	SLOW BLOW,125VDC,5A	LITTELFU	0154005.DRT	F1
36	3	JUMPER,100",GOLD	3M	969102-0000-DA	J3A, J4A, J6A
37	2	4.7UF,20%,4A	COILCRAF	XAL5030-472MEB	L1, L16
38	1	3.3UF,20%,8.7A	COILCRAF	XAL5030-332MEB	L2
39	7	1.0UF,20%,4.2A	VISHAY	IHLF-1616ABER1R0M11	L3, L4, L5, L6, L7, L8, L9
40	6	0805,0.47UF	MURATA	NFM21PC474R1C3D	L10, L11, L12, L21, L22, L24
41	8	0805,220R,2000MA	MURATA	BLM21PQ2215N1D	L13, L14, L15, L17, L18, L19, L20, L23
42	1	JACK,PWR,2,SXS,5MM,8A	CUI	PJ-063BH	P1
43	1	7 POS,SGL,E,STR	SULLINS	PREC0075AAN-RC	P2
44	1	20 POS,DUAL,GOLD,-05"	SAMTEC	FTF-110-03-G-D-06	P4
45	1	RJ45 JACK W/LED	LINK-PP	LPJG17561BGNL	P5
46	1	COMBO,ESATA/USB, TOP MNT,R/A	MOLEX	1051251001	P6
47	1	RCPT,STD,MICRO,USB,TYPE B	FCI	10103594-0001LF	P7
48	2	JACK,STEREO,3.5MM,4P	CUI	SJ1-3524NS	P8, P9
49	2	6 POS,STN,TIN	FCI	68000-0604LF	P10, P3
50	1	RCPT,HDMI,R/A	FCI	10029449-001RLF	P11
51	1	MICRO SD,PUSH-PUSH	ALPS	SCH4580200	P12
52	1	USB,3.0 REC,TYPE A,R/A,9 POS	AMPHENOL	G58311131HR	P13
53	1	USB,3.0,TYPE A,STACKED,R/A	AMPHENOL	G58311231HR	P15
54	4	60 POS,0.8MM,VERT	HIROSE	FDX1-60P-0.85V	P16, P17, P18, P19
55	2	MOSFET,P-CH,20V,6A,SOT-223	FAIRCHILD	FTD434P	Q1, Q2
56	2	NPN,NPN,W/RES,50V,500MA	PANASONIC	DAK25C4040R	Q3, Q4
57	1	MOSFET,N-CH,20V,0.15MA,SOT-416	ON_SEMICONDUCTOR	NTA4152NT10	Q5
58	1	MOSFET,N-CH,60V,320MA,SOT-323	NXP	BSS138PW,115	Q6
59	1	1206,0R02,1W,1%	VISHAY	W5LP1206R0200FEA	R36
60	4	1206,0R01,1/2W,0.5%	OHMITE	LVK12R010DER	R1, R7, R34, R35
61	1	0402,8K25,1/16W,1%	STACKPOLE	RMCF0402F78K25	R206
62	48	0402,47R0,1/16W,1%	STACKPOLE	RMCF0402F747R0	R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383
63	3	0402,10K2,1/16W,1%	SAMSUNG	RC1005F1022CS	R2, R13, R292
64	2	0402,169K,1/16W,1%	PANASONIC	ERJ-2RK1693K	R3, R9
65	2	0402,45K3,1/16W,1%	SAMSUNG	RC1005F4532CS	R4, R295
66	1	0402,154K,1/16W,1%	VISHAY	CRCW0402154KFED	R396
67	1	0402,470K,1/16W,1%	NIC	NRC04F4703TRF	R397
68	2	0402,1K91,1/16W,1%	PANASONIC	ERJ-2RK1911X	R5, R296
69	1	0402,20K5,1/16W,1%	STACKPOLE	RMCF0402F220K5	R6, R11, R297
70	14	0402,1K00,1/16W,5%	KOA	RK73B1ETTP10J2	R8, R70, R71, R72, R73, R90, R91, R99, R100, R116, R117, R273, R274, R303
71	59	0402,10K0,1/16W,1%	KOA	RK73H1ETTP1002F	R10, R21, R28, R24, R26, R27, R22, R37, R41, R42, R44, R46, R50, R51, R52, R56, R58, R74, R75, R76, R77, R93, R120, R180, R181, R182, R183, R407, R187, R188, R190, R191, R192, R193, R194, R195, R196, R197, R239, R248, R260, R261, R262, R263, R264, R265, R272, R285, R287, R288, R313, R321, R335, R189, R205, R419, R421, R424, R426
72	1	0402,90K9,1/16W,1%	YAGEO	RC0402FR-0790K9L	R330
73	1	0402,16K0,1/16W,1%	YAGEO	RC0402FR-0716KL	R329
74	1	0402,51K1,1/16W,1%	YAGEO	RC0402FR-0751K1L	R12
75	2	0402,3K24,1/16W,1%	STACKPOLE	RMCF0402F73K24	R14, R240
76	19	0402,4K70,1/16W,5%	ROHM	MCR01M2PF472	R15, R33, R59, R62, R66, R204, R207, R209, R215, R216, R217, R218, R243, R333, R334, R389, R390, R398, R399
77	7	0402,1K20,1/16W,1%	ROHM	MCR01M1RTF2201	R16, R17, R43, R391, R392, R212, R213
78	46	0402,0R00,JUMPER,1/16W	NIC	NRC0420TRF	R29, R30, R32, R39, R53, R57, R84, R85, R86, R87, R88, R89, R96, R111, R112, R113, R114, R115, R118, R123, R210, R211, R244, R249, R290, R291, R302, R412, R414, R422, R416, R312, R384, R395, R299, R300, R331, R332, R385, R386, R387, R400, R401, R402, R403, R406
79	12	0402,1K01,1/16W,5%	KOA	RK73B1ETTP10J4	R48, R101, R102, R103, R104, R219, R220, R221, R222, R236, R286, R309
80	44	0402,22R0,1/16W,5%	SAMSUNG	RC1005J220CS	R61, R63, R64, R78, R79, R80, R81, R82, R83, R105, R106, R107, R108, R109, R110, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R152, R153, R223
81	5	0402,220R,1/16W,5%	YAGEO	RC0402JR-07220RL	R68, R69, R97, R98, R417
82	1	0402,30K0,1/16W,5%	STACKPOLE	RMCF0402F730K0	R294
83	2	0402,12K1,1/16W,1%	YAGEO	RC0402FR-0712K1L	R92, R119
84	1	0402,1K87,1/16W,1%	SAMSUNG	RC1005F1871CS	R201
85	1	0402,1M00,1/16W,5%	KOA	RK73B1ETTP10J5J	R202
86	1	0402,4K99,1/8W,1%	STACKPOLE	CRCW04024K99KFHDP	R203
87	1	AM572x PROCESSOR,1.5GHZ	Texas Instruments	XAM572AABXCE	U11
88	7	0402,10R0,1/16W,5%	STACKPOLE	RMCF0402JT10R0	R224, R225, R227, R229, R230, R233, R289
89	6	0402,20K0,1/16W,1%	VISHAY	CRCW040220K0KED	R226, R228, R231, R232, R234, R235
90	6	0402,33R0,1/16W,5%	NIC	RK73B1ETTP10J30J	R265, R267, R268, R269, R270, R271
91	4	0402,240R,1/16W,1%	NIC	NRC04F2400TRF	R275, R276, R277, R278
92	6	0402,49R9,1/16W,1%	KOA	RK73H1ETTP49R9F	R279, R280, R281, R282, R283, R284
93	1	0402,25K5,1/16W,1%	STACKPOLE	RMCF0402F25K5	R293
94	1	0402,63K4,1/16W,1%	PANASONIC	ERJ-2RK6342X	R298
95	1	0402,100R,1/16W,1%	ROHM	MCR01M2PF1000	R308
96	2	TACTILE,SPST-NO,0.05A,12V	TE_CONN	FSMRA3JH	S1, S2
97	1	GATE AND SGL, INPUT, SOT23-6	Texas Instruments	SN74LVC1G11DCKR	U9
99	3	RES,BULK,ADJ,5%50VW/PAD	Texas Instruments	TPS54531D0A	U1, U3, U28
100	1	LOAD SWITCH,6A,RW,SON	Texas Instruments	TPS2296DSG0T	U2
101	1	DGTL,TEMP SENSOR,LP,SOT-563	Texas Instruments	TMP102AIDRLT	U4
102	1	POWER MANAGEMENT, PROCESSOR, BGA169	Texas Instruments	PTPS6590374ZWSR	U5
103	1	RTC/CALENDAR,EPPROM,87DFN	MICROCHIP	MCP79410T-I/MNY	U6
104	1	CLK_GEN,100MHZ,32QFN	Texas Instruments	CCD9M102RHBR	U7
105	11	SOT3,TPD2E05USB30A,TVS DIODE 3.6VWM 8VC	Texas Instruments	TPD2E05USB30ADR	U25, U26, D27, D28, D29, D30, D31, D32, D33, D38, D40
106	1	EPPROM,32KBIT,ADONH2,8-SOIC	ON_SEMICONDUCTOR	CAT24C256W-G	U8
107	1	SGL, POSITIVE AND GATE,SC-70	Texas Instruments	SN74LVC1G08BCKR	U10

108	2	VOLT,SUPERVISOR,0.9V,SOT23-6	Texas Instruments	TPS3808G09DBVR	U12, U13
109	2	INTERFACE,TX/RX/TXRX	MICREL	KS29031RNX	U14, U15
110	1	REG,LDO,ADJ,1.5A,10SON	Texas Instruments	TPS74801DRC	U16
111	1	TU58B00A,1.4-PORT,USBS,0.4HUB,VQFN,64	Texas Instruments	TU58B00A1RGC	U17
112	1	STEREO AUDIO CODEC,24 BIT,32-VQFN	Texas Instruments	TLV320AIC3104RHBR	U18
113	1	REG,LDO,1.8V,50MA,SOT23-5	Texas Instruments	TPS77018DBVT	U19
114	1	BUFF/DVR,TRI-ST,DL,8VSSOP	Texas Instruments	SN74LVC2G241DCUR	U20
115	1	HDMI,ESD,PROT,24UQFN	Texas Instruments	TPD125016RKTR	U21
116	1	ASYNCH,4GX8,MCP,WFBGA	KINGSTON	EMMC04G-S100-80BU	U22
117	4	DDR3L,SORAM,4G,FBGA	KINGSTON	D2516EC48XGB	U23, U24, U25, U26
118	1	CONV,DOR,DORZ,DOR3,10SON	Texas Instruments	TPS51200DRC	U27
119	2	POWER,DIST,SWITCH,ADJ,10SON	Texas Instruments	TPS2561DRCK	U29, U30
120	1	MUX/DEMUX,2X2,28TQFN	PERICOM	P12DBS212ZHE	U31
121	1	REG,LDO,500MA,8-SOIC	Texas Instruments	TL5209DR	U32
122	1	32.768 KHZ,6PPF	CITIZEN	CF5206-32.768KD2BB	Y1
123	1	20.000 MHZ,18PF,SMD	ABRACON	ABM7-20.000MHZ-D2Y-T	Y2
124	1	SMD,16.384MHZ,12PF,R60,30PPM,ABM10-CUSTM	ABRACON	ABM10-16.384MHZ-12-R60-4-T	Y9
125	2	25.000 MHZ,18PF,SMD	ABRACON	ABM3-25.000MHZ-D2Y-T	Y5, Y6
126	1	24.000 MHZ,20PF,SMD	ECS	ECS-240-20-30B	Y7
127	1	25.000 MHZ,8PF,SMD	ABRACON	ABM8-25.000MHZ-8-E1G	Y8
128	2	0402,1K74,1/10W,1%	PANASONIC	ERJ-2RK1741X	R318, R322
129	2	0402,2K00,1/10W,1%	PANASONIC	ERJ-2RK2001X	R319, R323
130	1	22.5792 MHZ,SMD	ABRACON	ABM8-22.5792MHZ-D2Y-T	Y3
131	1	0402,0.33UF,10V,X5R,10%	MURATA	GRM155R61A334KE15D	C476
132	5	2X250N,TPD1E10B06,TVS DIODE 5.5VWM 14VC	Texas Instruments	TPD1E10B06DPYT	D34, D35, D36, D37, D42
133	1	1210,1UF,X7R,50V,10%	MURATA	GRM32RR71H105KA01L	C479
134	1	US8,8-VFSOP,IIC,GATE,NAND,2CH,2-INP	Texas Instruments	SN74LVC0312DCU	U34
135	2	0402,12PF,50V,C0G,NP0,1%	KEOMET	CB804C120F5GAC	C452, C453
136	1	CoNN/HDR,2POS,1.25MM,VERT,TIN,35uin	MOLEX	0530470210	J1
137	1	20QFN,3GBPS,2CH,SATA,REDRIVER,BUFFER	Texas Instruments	SN75LVCP412A	U33
138	3	3 POS,SINGLE,ST,100°,TIN	FCI	68000-403HLF	J3, J4, J6
139	1	0402,22K6,1/16W,0.1%	PANASONIC	ERA-2AEB2262X	R404
140	1	0402,620K,1/10W,0.1%	PANASONIC	ERJ-2RKf6203X	R409
141	1	0402,330K,1/16W,1%	YAGEO	RC0402FR-07330KL	R410
142	2	0805,0R00,JUMPER,1/8W	ROHM	MCH10E291000	F82, F86
143	2	0402,47K0,1/16W,1%	YAGEO	RC0402FR-0747KL	R408, R415
145	1	BSS138L,MOSFET,N-CH,0.20A,50V,SOT-23	FAIRCHILD	BSS138L	O7
146	1	0402,1UF,35V,XSR,20%	TDK	C1005X5R1V105M050BC	C495
147	1	INVTR,SGLE,1INPUT,SC705	Texas Instruments	SN74LVC1G06DCKR	U42
148	3	0402,40K2,1/10W,1%	PANASONIC	ERJ-2RKf4022X	R420, R425, R428
149	3	0402,499R,1/10W,1%	PANASONIC	ERJ-2RKf4990X	R418, R423, R427
150	3	PNP,60V,600MA,SOT-23	ON_SEMICONDUCTOR	MM812907ALT1G	O8, O9, Q10
151	3	VOLTAGE REF, SHUNT, 1.24V-18V, SOT-23-3	Texas Instruments	TLVH431AID82R	U35, U43, U44
999	55	DO NOT INSTALL		DNI	J5, R405, C219, C234, C435, R18, R19, R20, R23, R38, R40, R45, R47, R49, R54, R55, R94, R95, R121, R122, R31, R200, R413, R237, R241, R242, R245, R246, R250, R251, R252, R253, R254, R255, R256, R257, R258, R259, R310, R311, R320, R214, R314, R315, R393, R394, R316, R317, BAT1, R429, R430, R431, R411, R328, R247