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1 2	1 40		AB Acqua1 C1, C4, C9, C10, C11, C12,	ATSAMAD5 Processor Module  CAP 0.1uF +/-10% 25V X7R 0603, CAP 0.1uF +/-10% 25V X7R 0603, CAP 0.1uF +/-10% 25V X7R	AB Acqua SMD with Acqua CAP0603	ACME Board Acqua 0.1uF	AB Acqua 808, 808, 808, 808, 808,
			C13, C14, C15, C16, C17, C18, C22, C23, C31, C40.	0603, CAP 0.1uF +/-10% 25V X7R 0603, CAP 0.1uF			808, 808, 808, 808, 808, 808, 808, 808,
			C41, C42, C44, C46, C49, C51, C60, C61, C62, C63,	+/-10% 25V X7R 0603, CAP 0.1uF -/-10% 25V X7R 0603, CAP 0.1uF			808, 808, 808, 808, 808, 808, 808, 808,
			C64, C65, C67, C68, C69, C70, C71, C72, C76, C78,	0603, CAP 0.1uF +/-10% 25V X7R			808, 808, 808, 831, 808, 808, 808, 808, 808, 808,
			C79, C80, C81, C82	25V X/R 0603, CAP 0.1uF +/-10%			780, 808, 808, 808, 808
				0603, CAP 0.1uF +/-10% 25V X7R 0603, CAP 0.1uF +/-10% 25V X7R 0603, CAP 0.1uF +/-10%			
				25V X7R 0603, CAP 0.1uF +/-20% 16V X7R 0603, CAP 0.1uF +/-10% 25V X7R 0603, CAP 0.1uF +/-10%			
				0.1uF +/-10% 25V X7R 0603, CAP 0.1uF +/-10% 25V X7R 0603, CAP 0.1uF +/-20% 50V X7R 0603, CAP 0.1uF +/-10% 25V X7R 0603, CAP 0.1uF +/-10% 25V X7R 0603, CAP 0.1uF +/-10%			
3	17		C2. C3. C5. C6. C7. C45.	25V X7R 0603, CAP 0.1uF +/-10% 25V X7R 0603 CAP 1uF +/-10% 50V X7R 0805	CAP0805	1uF	1069
			C47, C48, C50, C52, C53, C54, C55, C56, C57, C58,				
4	1		C59	CAP 4700pF +/-5% 50V C0G 0603	CAP0603	4700pF	732
5 6	3 2		C19, C20, C25 C21, C28	CAP 22uF +80/-20% 25V Y5V 1210 CAP 47uF +/-20% 6.3V X5R 1206	CAP1210 CAP1206	22uF 47uF	1523 1428
7	1		C24 C26, C33, C38, C75	CAP 8200pF +/-5% 50V C0G 0603 CAP 0.01uF +/-5% 50V C0G 0603	CAP0603 CAP0603	8200pF 0.01uF	735
9	4 10		C27, C29, C30, C32, C34, C36, C37, C39, C66, C73	CAP 10.016F +/-10% 10V XSR 0805, CAP 10uF +/-10% 10V XSR 0805, CAP	CAP0805	10uF	1223, 1223, 1223, 1223, 1223, 1223, 1223, 1223,
			550, 551, 555, 550, 575	XSR 0805, CAP 10uF +/-10% 10V XSR 0805, CAP 10uF +/-10% 10V XSR 0805, CAP 10uF +/-10% 16V XSR 0805, CAP 10uF +/-10% 10V XSR 0805			1203, 1223
10	1		C35	CAP 15pF +/-5% 50V C0G 0603	CAP0603	15pF	680
12	1		C43 C74	CAP 3300pF +/-20% 50V X7R 0603 CAP 1nF +/-10% 2kV X7R 1206	CAP0603 CAP1206	3300pF 1nF	1601
13 14	1 3		C77 D1, D2, D8	CAP 0.22uF +/-10% 50V X7R 0603 LED Green 0603, 2V 20mA	CAP0603 D_0603 (DIOC1608X08M)	0.22uF LGQ971	783 LGQ971
15 16	1 3		D3 D4, D5, D6	LED Yellow 0603, 2V 20mA Surface Mount 0603 Chip LED, Red	D_0603 (DIOC1608X08M)	SML-310YTT86M HSMS-C190	SML-310YTT86M HSMS-C190
17	1		D7	Zener Voltage Regulator, 500 mW, 2-Pin SOD-123, Pb-Free, Tape and Reel	425-04 / SOD-123 / SODFL371X135-2N	MMSZ4693T1G	MMSZ4693T1G
18	1		D9	Zener Voltage Regulator, 500 mW, 2-Pin SOD-123, Pb-Free, Tape and Reel	425-04 / SOD-123 / SODFL371X135-2N	MMSZ4691T1G	MMSZ4691T1G
19 20	1 19		F1 GT1, GT2, GT3, GT4, GT5,	656 Series (22.5mm) PC Mount Fuse Block for 5x20mm Fuses 2-electrode arrester 75V	65600001009 G31-A75X	65600001009 B88069X8091B502	65600001009 B88069X8091B502
			GT6, GT7, GT8, GT9, GT10, GT11, GT12, GT13, GT14,				
			GT15, GT16, GT17, GT18, GT19				
21 22	4 5		J1, J4, J5, J6 J2, J3, J7, J8, J10	Wire-To-Board Terminal Block, 8pos, 5mm pitch 250 V, 13.5 A, 1 mm² Wire-To-Board Terminal Block, 8pos, 5mm pitch 250 V, 13.5 A, 1 mm²	AST0450404 AST0450804	AST0450404 AST0450804	AST0450404 AST0450804
23 24	1		J11 J12	Single Port MagJack Shielded R/A WR-DSUB Male Angled POB Connector	RJMG16XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	RJMG163217101NR 618009231221	RJMG163217101NR 618009231221
25 26	2		J13, J14	Terminal PCB 16A 1 way R/A WR-COM USB Type A Dual Stacked	MC000017 61400826021	MC000017 61400826021	MC000017 61400826021
27	1		L1	IND 2.2uH +/-30% 3.5A 25.1mOhm SRN6045 IND 3.3uH +/-30% 3.2A 30.2mOhm SRN6045	BOURNS_SRN6045 BOURNS_SRN6045	2.2uH 3.3uH	376
28 29	1 1 2		L3 L4. L5	IND 3.50H 47-50% 3.2A 30.2HORIN SRX6004S IND 18u 47-20% 0.95A 0.21Ohm SDR0503 Chip Ferrite Bead 6000h, @100MHz 500mA	BOURNS_SRN0045 BOURNS_SDR0503 IND0603	18u BLM18AG601SND	392 BLM18AG601SND
30 31 32	1		P1	Header, 2-Pin Header, 4-Pin, Dual row	HDR1X2	Header 2	Header 2
32 33 34	1		P3	Header, 4-Pin, Dual row Header, 2-Pin, Dual row Header, 2-Pin, Dual row	HDR2X4 HDR2X7	Header 4X2 Header 7X2	Header 4X2 Header 7X2
35	1 10		R1, R2, R73, R76, R77,	RES_10k_0603_5%	HDR2X20 RES0603	Header 20X2 10k	Header 20X2 388
36	1		R80, R81, R84, R85, R88 R3	RES_470k_0603_5%	RES0603	470k	428
37	18		R4, R5, R6, R7, R8, R9, R10, R11, R12, R19, R20,	Resistor SMT 0603 100K 1% ohm,	RES0603	100K	1732, 1732, 1732, 1732, 1732, 1732, 1732, 1732,
			R33, R41, R46, R48, R50, R52, R90	0603 100K 1% ohm, Resistor SMT 0603 100K 1% ohm, Resistor SMT 0603 100K 1% ohm, RES_100k_0603_5%, RES_100k_0603_5%, RES_100k_0603_5%, Resistor SMT 0603 100K 1%			412, 412, 412, 1732, 412, 1732, 1732, 1732, 1732,
				ohm, RES_100k_0603_5%, Resistor SMT 0603 100K 1% ohm, Resistor SMT 0603 100K 1% ohm, Resistor SMT 0603 100K 1% ohm, Resistor SMT 0603 100K 1% ohm, RES_100k_0603_5%			412
38	8		R13, R14, R15, R16, R17,	RES_47_0603_5%	RES0603	47	332
39	8		R18, R72, R89 R21, R22, R23, R24, R25,	RES_150_0603_5%	RES0603	150	344
40	1		R26, R86, R87 R27	RES_0.020_0805_1%	RES0805	0.020	3273
41 42	1		R28 R29	RES_0_1206_5% Resistor SMT 0603 33.2K 1% ohm	RES1206 RES0603	0 33.2K	581 1686
43 44	1 19		R30 R31, R35, R39, R54, R55,	RES_0.470_1210_5% Resistor SMT 0603 10.0K 1% ohm	RES1210 RES0603	0.470 10.0K	3366 1636
			R56, R57, R58, R59, R60, R61, R62, R63, R64, R65,				
45			R66, R67, R68, R69	Resistor SMT 0603 56.2K 1% ohm	RES0603	56.2K	1708
45 46 47	1		R32 R34	Resistor SMT 0603 261K 1% ohm Resistor SMT 0603 261K 1% ohm Resistor SMT 0603 237K 1% ohm	RES0603 RES0603	261K 237K	1772
48	1		R36 R37	Resistor SMT 0603 237K 1% onm Resistor SMT 0603 422K 1% ohm Resistor SMT 0603 422K 1% ohm	RES0603 RES0603	11.3K 432K	1641 1793
49 50	1		R38 R40	Resistor SMT 0603 82.5K 1% ohm	RES0603	82.5K	1724
51 52	2		R43, R44 R45	RES_510_0603_5% Resistor SMT 0603 200K 1% ohm	RES0603 RES0603	510 200K	357 1761
53 54	4 8		R47, R49, R51, R53 R71, R98, R107, R108,	Resistor SMT 0603 147K 1% ohm RES_4.7k_0603_5%	RES0603 RES0603	147K 4.7k	1748 380
55	1		R115, R116, R123, R124 R93	RES_22k_0603_5%	RES0603	22k	396
56	16		R94, R95, R96, R97, R103, R104, R105, R106, R111,	RES_1M0_0603_5%	RES0603	1.0M	1306
			R112, R113, R114, R119, R120, R121, R122				
57 58	1 1		R99 R100	RES_0_0603_5% RES_180_0603_5%	RES0603 RES0603	0 180	291 346
59	8		R101, R102, R109, R110, R117, R118, R125, R126	RES_750k_0603_5%	RES0603	750k	433
60 61	2 8		S1, S2 SW1, SW2, SW3, SW4,	FSM10JH Momentary SPST switch, Through Hole Miniature SPDT Signal Relay, Latching Single Coll	TACTILE_4.5x6.5 EC2-SERIES	1-1825910-8 EC2-5SNU	1-1825910-8 EC2-5SNU
62	4		SW5, SW6, SW7, SW8 U1, U2, U3, U4	36V Precision R-to-R In/Out Low Vos Low Ib opamp	R-PDSO-G5	OPA192IDBVR	OPA192IDBVR
63	1		US	32-bit, Precision, 38 kSPS ADC with PGA and Voltage Reference	(SOT95P280X145-5N) PW-28_S / TSSOP-28 /	ADS1262IPW	ADS1262IPW
64			U6	Octal Transparent Latch with 3-State Outputs	TSOP65P640X120-28L	SN74LVC373APWR	SN74LVC373APWR
65	1		U7	4.5 to 17V Input, 3A Synchronous Step-Down Voltage Regulator	TSOP65P640X120-20N SOT95P280X110-6N	TPS563200DDCT	TPS563200DDCT
66 67	2		U8, U11 U9	Zero Drift Bidirectional IZC Current/Power Monitor  4.5V to 17V Input 3A Synchronous Step Down Regulator	D-8 (SOIC127P600X175-8N) DDF-8_L / TSOP65P280X110-	INA219BIDR	INA219BIDR TPS563210DDFT
68	1		U10		8L DGN-8 /	TPS7A4901DGNT	TPS7A4901DGNT
69	1		U12	-35V -200mA Ultralow-Noise Negative LDO	TSOP65P490X110_HS-9N DGN-8 /	TPS7A3001DGNT	TPS7A3001DGNT
70	1		U13	Dual Buffer Driver With 3-State Outputs	TSOP65P490X110_HS-9N	SN74LVC2G240DCTR	SN74LVC2G240DCTR
71	1		U14	Single Bit Dual Supply Bus Transceiver With 3-state Outputs	8N DCK-6 L / SC-70 /	SN74LVC1T45DCKR	SN74LVC1T45DCKR
			U15. U17	Zero Drift Low Noise FMI Hardened onamo	TSOP65P210X110-6L D-8 (SOIC127P600X175-8N)		LMP2022MA/NOPB
72 73	1		U16	IZC Quad Channel 12bit Buffered DAC with Internal Reference	TSSOP-14_L / 21-0066 / TSOP65P640X110-14L	MAX5815BAUD+	MAXS815BAUD+
74	8		U18, U19, U20, U21, U22, U23, U24, U25	H BRIDGE DRIVER, 7V, 1A, SOP8	SOP8 / EX112-5001-1 / TSOP127P620X160-8N	BD6211F-E2	BD6211F-E2
75 76	2 8		U26, U27 U28, U29, U30, U31, U35,	1-of-8 FET Multiplexer and Demultiplexer 40ns micropower Push-Pull Comparator	TI DIMAG I	SN74CBT3251PW TLV3201AIDCK	SN74CBT3251PW TLV3201AIDCK
	8		U36, U37, U38		DCK-5_L / SC-70 / SOT65P210X110-5L TI-PW16_N	TRS3232FCPW	TRS3232FCPW
77 78	1 1		U32 U33	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver 15V 75mA Highly Efficient Buck Converter	TI-PW16_N DCN-8_L / TSOP65P280X145- 8L		TPS62120DCNT
79	1		U34	Humidicon Digital Humidity/Temperature Sensor +/-4.5%RH +/-0.5deg	SOIC-8_L / SOIC127P600X206-8L	HIH6030-021-001	HIH6030-021-001