

1 ARGUS Release Candidate Bill of materials

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3 Capacitors ceramic:

4	Part	Value	Package	Note
5	C0✓	100nF	SMD 0805	
6	C1✓	100nF	SMD 0805	
7	C2✓	100nF	SMD 0805	
8	C3✓	100nF	SMD 0805	
9	C4✓	100nF	SMD 0805	
10	C5✓	100nF	SMD 0805	
11	C6✓	100nF	SMD 0805	
12	C7✓	100nF	SMD 0805	
13	C8✓	100nF	SMD 0805	
14	C9✓	100nF	SMD 0805	
15	C10✓	100nF	SMD 0805	
16	C11✓	100nF	SMD 0805	
17	C12✓	100nF	SMD 0805	
18	C13✓	100nF	SMD 0805	
19	C14✓	100nF	SMD 0805	
20	C15A✓	22pF	SMD 0805	
21	C15B✓	22pF	SMD 0805	
22	C16✓	100nF	SMD 0805	
23	C16A✓	22pF	SMD 0805	
24	C16B✓	22pF	SMD 0805	
25	C17✓	100nF	SMD 0805	
26	C18✓	100nF	SMD 0805	
27	C20✓	100nF	SMD 0805	
28	C22✓	100nF	SMD 0805	
29	C30✓	100nF	SMD 0805	
30	C31✓	100nF	SMD 0805	
31	C32✓	100nF	SMD 0805	
32	C33✓	100nF	SMD 0805	
33	C40✓	100nF	SMD 0805	
34	C41✓	100nF	SMD 0805	
35	C42✓	100nF	SMD 0805	
36	C60✓	100nF	SMD 0805	
37	C61✓	22pF	SMD 0805	
38	C62✓	22pF	SMD 0805	
39	C63✓	470pF	SMD 0805	
40	C64✓	470pF	SMD 0805	
41	C71✓	470pF	SMD 0805	
42	C73✓	470pF	SMD 0805	
43	C80A✓	6.8nF	SMD 0805	
44	C80B✓	6.8nF	SMD 0805	
45	C81A✓	6.8nF	SMD 0805	
46	C81B✓	6.8nF	SMD 0805	
47	C82A✓	6.8nF	SMD 0805	
48	C82B✓	6.8nF	SMD 0805	
49	C83A✓	6.8nF	SMD 0805	
50	C83B✓	6.8nF	SMD 0805	
51	C84✓	1nF	SMD 0805	
52	C85✓	1nF	SMD 0805	
53	C86✓	100nF	SMD 0805	
54	C93✓	100nF	SMD 0805	
55	C706✓	2.2uF	SMD 0805	
56	C707✓	2.2uF	SMD 0805	
57	C708✓	2.2uF	SMD 0805	
58	C709✓	2.2uF	SMD 0805	
59	C710✓	2.2uF	SMD 0805	
60	C711✓	2.2uF	SMD 0805	
61	C712✓	2.2uF	SMD 0805	
62	C713✓	2.2uF	SMD 0805	
63	C714✓	2.2uF	SMD 0805	
64	C715✓	2.2uF	SMD 0805	
65	C716✓	100nF	SMD 0805	
66	CA1✓	100nF	SMD 0805	

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67 CA2 100nF[✓] SMD 0805
68 * Ratings shouldn't be lower than 35V

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71 **Capacitors electrolytic:**

Part	Value	Package	Note
73 C200	10uF, 35V* diameter**	Through Hole	2.5mm Pin distance, 6mm
74 C703	10uF, 16V* diameter**	Through Hole	2.5mm Pin distance, 6mm
75 C704	10uF, 16V* diameter**	Through Hole	2.5mm Pin distance, 6mm
76 C717	10uF, 16V* diameter**	Through Hole	2.5mm Pin distance, 6mm
77 C718	10uF, 16V* diameter**	Through Hole	2.5mm Pin distance, 6mm
78 C719	10uF, 16V* diameter**	Through Hole	2.5mm Pin distance, 6mm
79 C720	10uF, 35V* diameter**	Through Hole	2.5mm Pin distance, 6mm
80 C721	10uF, 16V* diameter**	Through Hole	2.5mm Pin distance, 6mm
81 C722	10uF, 16V* diameter**	Through Hole	2.5mm Pin distance, 6mm
82 C723	10uF, 16V* diameter**	Through Hole	2.5mm Pin distance, 6mm
83 C724	10uF, 16V* diameter**	Through Hole	2.5mm Pin distance, 6mm
84 C725	10uF, 35V* diameter**	Through Hole	2.5mm Pin distance, 6mm

85 * Voltage ratings are minimums, personally I used 50V capacitors for all.

86 ** A reasonable maximum height is 8mm when intending to use a daughterboard, otherwise virtually any height goes

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89 **Connectors:**

Part	Value	Package	Note
91 SIMM	72 Pin SIMM connector, 90°, 45° or 0°		i.e. AMP 73824862 (tested)
92 J1	3.5mm Audio Jack Stereo raised		i.e. CUI SJ1-3543N
93 J2	3.5mm Audio Jack Stereo raised		i.e. CUI SJ1-3543N
94 J3	3.5mm Audio Jack Stereo raised		i.e. CUI SJ1-3543N
95 P8	15 Pin female	SUB-D Print	
96 MPC	1X04, 90°	Pinheader 2.54mm	
97 P45	1X04, 90°	Pinheader 2.54mm	

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100 **Resistors:**

Part	Value	Package	Note
101 R1 [✓]	10K	SMD 0805	
102 R2 [✓]	10K	SMD 0805	
103 R3 [✓]	10K	SMD 0805	
104 R4 [✓]	10K	SMD 0805	
105 R6 [✓]	10K	SMD 0805	
106 R7 [✓]	10K	SMD 0805	
107 R8 [✓]	10K	SMD 0805	
108 R9 [✓]	10K	SMD 0805	
109 R10 [✓]	61.9K	SMD 0805	
110 R11 [✓]	10K	SMD 0805	
111 R12 [✓]	10K	SMD 0805	
112 R13A	10K / nc	SMD 0805	Refer to silkscreen or note for U31
113 R13B	10K	SMD 0805	
114 R13C	0 / nc	SMD 0805	Refer to silkscreen or note for U31
115 R14 [✓]	10K	SMD 0805	
116 R15 [✓]	10K	SMD 0805	
117 R16 [✓]	10K	SMD 0805	
118 R17 [✓]	0	SMD 0805	

120	R18 ✓	0	SMD 0805	
121	R40 ✓	200	SMD 0805	
122	R41	nc	SMD 0805	not populated
123	R52 ✓	5.1K -	SMD 0805	
124	R53 ✓	5.1K -	SMD 0805	
125	R54 ✓	5.1K -	SMD 0805	
126	R55 ✓	5.1K -	SMD 0805	
127	R60 ✓	5.1K -	SMD 0805	
128	R61 ✓	22K	SMD 0805	
129	R62 ✓	390	SMD 0805	
130	R63 ✓	10K	SMD 0805	
131	R64 ✓	5.1K -	SMD 0805	
132	R65 ✓	22K	SMD 0805	
133	R66 ✓	390	SMD 0805	
134	R67 ✓	10K -	SMD 0805	
135	R70 ✓	10K -	SMD 0805	
136	R71 ✓	20K	SMD 0805	
137	R72 ✓	10K -	SMD 0805	
138	R73 ✓	20K	SMD 0805	
139	R74 ✓	75	SMD 0805	
140	R75 ✓	20K	SMD 0805	
141	R76 ✓	75	SMD 0805	
142	R77 ✓	20K	SMD 0805	
143	R80 ✓	2.2K	SMD 0805	
144	R81 ✓	2.2K	SMD 0805	
145	R82 ✓	2.2K	SMD 0805	
146	R83 ✓	2.2K	SMD 0805	
147	R84 ✓	200	SMD 0805	
148	R85 ✓	200	SMD 0805	
149	R600 ✓	5.1K	SMD 0805	
150	R602 ✓	5.1K	SMD 0805	
151	R605 ✓	5.1K	SMD 0805	
152	R606 ✓	5.1K	SMD 0805	
153	R607 ✓	5.1K	SMD 0805	
154	R608 ✓	5.1K	SMD 0805	
155	R609 ✓	10K -	SMD 0805	
156	R610 ✓	5.1K	SMD 0805	
157	R611 ✓	5.1K	SMD 0805	
158	R612 ✓	0	SMD 0805	
159	R614 ✓	0	SMD 0805	
160	R615 ✓	0	SMD 0805	
161	R616	nc	SMD 0805	not populated
162	R617	nc	SMD 0805	not populated
163	R618	nc	SMD 0805	not populated
164	R619	nc	SMD 0805	not populated
165	R620	nc / 0	SMD 0805	See schematic. Default: not populated
166	* all resistors 1/8W (except R620)			

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169	Integrated circuits:			
170	Part	Value	Package	Note
171	U0	DRAM 256K*16 or 1024K*16 (70ns or less)	SO40 / SO42	i.e. HY514260BJC-60.
		(optional Socket: i.e. AMP 3-822265-2) or HY5118160JC-70		
172	U1	DRAM 256K*16 or 1024K*16 (70ns or less)	SO40 / SO42	i.e.
		HY514260BJC-60 (optional Socket: i.e. AMP 3-822265-2) or HY5118160JC-70		
173	U10	AM78C201AKC	QFP160	
174	U30	AT93C66SC	SO8	
175	U31	IW78C21M1 / 29F800 (70ns or less)	SO44	Socket optionally supported
		(i.e. Yamaichi IC179Z-44)*		
176	U32	74F373DW	SO20	
177	U33	74F373DW	SO20	
178	U40	74F32D	SO14	
179	U60	TL082C	SO8	
180	U70	MS6308	SO8	
181	* alternatively one can solder 2x 2x25 1.27mm SMD female headers (i.e. 20021321-00050T4LF) onto the elongated pads (spanning U31 and U31EX), for a future			

daughterboard

182 set R13A and R13C accordingly (IW78C21M1 -> R13A = nc, R13C = 0)
183 (29F800 -> R13A = 10k, R13C = nc)
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186 Voltage regulators:

187 Part	Value	Package	Note
188 U20	7805 (1A or 3A)	TO-220	
189 U22	7905 (1A)	TO-220	

192 Oscillators:

193 Part	Value	Package	Note
194 X17	24.576MHz	HC49/S	
195 X18	16.9344MHz	HC49/S	

198 Connectors optional:

199 Part	Value	Package	Note
200 X1	2X31	Pinheader	2.54mm
201 X2	2X18	Pinheader	2.54mm
202 CON	1X02	Pinheader	2.54mm
203 IW	1X02	Pinheader	2.54mm
204 JP8	1X02	Pinheader	2.54mm