

ST Microelectronics
 MPA - Systems Lab
 Catania
 ITALY

Item	Quantity	Reference	Part	PCB Footprint
1	1	BAT20J1	DIODE	sm/do213aa_21
2	1	BT1	BR1632 2V	BATT_3V_V
3	1	BT2	BR2020 3v	BATT_3V_V
4	1	BZ1	BUZZER	BUZZER
5	1	CN1	CASH BOX	BLKCON.100/VH/TM2OE/W.200/6
6	5	CN2,J9,J10,CN21,CN24	CON2	2sip100
7	2	CN3,CN8	Jump	3sip100
8	1	CN4	ESCT-0.35W	5sip100
9	2	CN5,CN7	I2C-RFID	4sip100
10	1	CN6	FISCAL MEMORY-0.5W	6sip100
11	1	CN9	I2C-3V3	4sip100
12	1	CN10	CONNECTOR EDGE 20	blkcon.100/rh/tm20e/w.525/20
13	1	CN11	CON 1	2sip100
14	1	CN12	CON 2	18hv100
15	1	CN13	LCD 20x2	16sip100
16	1	CN14	LCD	LCD_16X2_S
17	1	CN15	CON4	4SIP100
18	2	J4,CN16	CON3	3SIP100
19	1	CN17	STS8DNH3LL	SOG.050/8/WG.244/L.200
20	1	CN18	CON4	4sip100_S
21	1	CN20	CON2	MORS2_MINI_S
22	1	CN22	DC-IN9V	plugalim
23	1	CN23	CIRDIN_6-R	USB_CON_S
24	1	CN25	PORT3	DSUB/RS.318/TM/9
25	1	CN26	PORT 0	DSUB/RP.318/TM/9
26	1	CN27	PORT 1	DSUB/RP.318/TM/9
27	1	CN28	PORT 2	DSUB/RP.318/TM/9
28	1	CN29	USB_TYPEB	USB_TYPEB_S
29	1	C1	22u	SM/CT_0405_12_s
30	2	C2,C1200	33n	sm/c_0805
31	1	C3	10nF	sm/c_0805
32	2	C4,C55	1u	sm/c_0805
33	23	C5,C7,C10,C14,C16,C18,	100n	sm/c_0805
		C24,C30,C48,C49,C50,C78,		
		C79,C80,C82,C85,C87,C88,		
		C89,C91,C92,C93,C102		
34	3	C6,C29,C51	47u	SM/CT_0605_12_S
35	2	C8,C9	15pF	sm/c_0805
36	2	C11,C53	0.1u	sm/C_0805
37	1	C12	0.1n	SM/C_0805
38	6	C13,C15,C17,C81,C86,C90	4.7u	SM/CT_0405_12_S
39	2	C19,C20	0.1u	SM/C0805_S
40	1	C21	1u	SM/C0805_S
41	5	C22,C27,C28,C52,C103	10n	sm/c_0805
42	1	C23	4.7u	SM/CT_0605_12
43	1	C25	4.7u	sm/C_0805
44	1	C26	100pF	sm/C_0805
45	2	C31,C32	22p	sm/c_0805

46	1	C33	560 pF	sm/c_0805		
47	9	C34,C35,C40,C41,C42,C43,		0.1 uF	sm/c_0805	
		C44,C45,C46				
48	2	C36,C37	3.3 nF 1600V	CK15		
49	1	C39	47uF 25V	sm/ct_0632_12		
50	1	C54	22uF	SM/CT_6032_12		
51	1	C56	47uF	SM/CT_0605_12_s		
52	2	C57,C67	1nF			
53	1	C58	10u 25V	RAD/CK05		
54	3	C59,C60,C74	10uF 25V			
55	1	C61	220p	RAD/CK05		
56	1	C62	22n	RAD/CK05		
57	1	C63	100u 10V	CYL/D.225/LS.100/.031		
58	1	C64	1.5nF			
59	3	C65,C70,C71	100nF			
60	1	C66	15nF			
61	2	C68,C69	100uF 10V			
62	1	C72	47nF			
63	1	C73	330uF 10V			
64	1	C75	220pF			
65	1	C76	10uF 10V			
66	1	C77	22nF			
67	8	C94,C95,C96,C97,C98,C99,		100nF	sm/c_0805	
		C100,C101				
68	2	C104,C105	10p	sm/c_0805		
69	1	DD1	CS8900A-CQ3	QUAD.50M/100/WG16.00		
70	1	D1	GREEN	sm/r_0805		
71	2	D2,D666	LL4148	sm/do213aa_12		
72	1	D3	BLU	sm/r_0805		
73	1	D4	LED	sm/r_0805		
74	1	D5	YELLOW	sm/r_0805		
75	1	D6	STPS2150A	SMB		
76	4	D7,D8,D9,D10	BAT54SW	sm/sot23_123		
77	2	D11,D19	GREEN	SM/D0805_S		
78	1	D12	orange	SM/D0805_S		
79	1	D13	red	SM/D0805_S		
80	1	D14	BAT54J	sm/do213aa_21		
81	1	D15	1N4148	SM/DO213AA_12		
82	1	D16	STPS2L25U	SM/DO214AB_12		
83	2	D17,D18	STPS2L25U	SMB		
84	1	D20	YELLOW	ledsmd0805_s		
85	1	D21	STPS8L30B	smdpack_s		
86	1	F1	1A	sm/d0214ab_12		
87	1	F2	7A	sm/d0214ab_12		
88	1	IC1	STS10PF30L	sog.050/8/wg.244/1.200		
89	1	IC2	M24C16-WMN6	sog.050/8/wg.244/1.200		
90	1	IC3	M68AW512ML70ND6T	SOG.80M/44/WG11.70/L18.4		
91	1	IC4	ST7FLite0S2Y0M6	sog.050/16/wg.244/1.400		
92	1	IC5	74LVC32ATTR	SOG.65M/14/WG6.20/L5.35		
93	2	IC10,IC11	74lcx245TTR	SOG.65M/20/WG8.20/L6.98		
94	1	IC12	M41T81SM6E	SOG.050/8/WG.244/L.200		
95	1	IC13	STM1404C	qfn16		
96	1	IC14	NAND256W3A0AN6	SOG.50M/48/WG20.20/L14.60		
97	1	IC15	L6902D	sog.050/8/wg.244/1.200		
98	1	IC16	L6910	SOG.050/16/WG.244/L.400		
99	1	IC17	L5973	SOG.050/8/WG.244/L.200		
100	1	IC18	LD1117ADT18TR	DPAK		
101	1	IC19	STM811TM16	SM/SOT143_1234		
102	1	IC20	ST8024CD	SOG.050/28/WG.420/L.725		
103	1	IC21	ST485ABD	SOG.050/8/WG.244/L.200		
104	2	IC22,IC23	ST3232EBTR	SOG.65M/16/WG6.60/L5.0		

105	1	IC24	USBUF01W6	SM/SOT323-6L		
106	1	IC25	74LVQ08TTR	SOG.65M/14/WG6.20/L5.35_S		
107	1	IC26	74LVX573TTR	sog.65m/20/wg.8.20/17.62		
108	3	JP2,JP15,JP17	JUMPER	2sip100		
109	4	JP4,JP5,JP7,JP9	OPEN	2SIP100		
110	2	JP6,JP8	CLOSED	2SIP100		
111	1	JP10	DC_IN	2sip100		
112	1	JP11	BC	2sip100		
113	1	JP12	EXTERNAL POWER	BLKCON.100/VH/TM1SQ/W.100/2		
114	3	JP13,JP14,JP16	JUMPER	BLKCON.100/VH/TM1SQ/W.100/2		
115	1	J1	CON58	ADAPT.ST10_144_S		
116	1	J2	CON50	blkcon.100/vh/tm2oe/w.200/52		
117	1	J3	PRINTER CONNECTOR	blkcon.100/vh/tm2oe/w.200/24		
118	1	J5	CON7	7sip100		
119	1	J6	CON3	3sip100_S		
120	1	J7	CON10	amp_model0		
121	1	J8	CARD READ	CARD_Double_conn_S		
122	1	L1	15uH/3A-COILCRAFT	DISC/.350x.175/LS.200x.100/.034		
123	1	L2	7uH - COILCRAFT	L15UH		
124	1	L3	15uH 3A COILCRAFT	L15UH		
125	2	PWC1,PWC5	+5V	2sip100		
126	1	PWC2	+3V3	2sip100		
127	1	PWC3	+1V8	2sip100		
128	1	PWC4	PWR	2sip100		
129	5	Q1,Q2,Q3,Q5,Q6	BC847B	sm/sot23_123		
130	1	Q4	STD10PF0674	SMDPAK_S		
131	1	Q7	BC847B	SM/SOT23_213		
132	1	RSENSE1	0.1	AX/RC05		
133	1	RSENSE2	0.3	AX/RC05		
134	11	R1,R3,R4,R12,R14,R18,R19,		560	sm/r_0805	
		R66,R69,R70,R71				
135	26	R2,R7,R9,R13,R16,R23,R35,		10k	sm/r_0805	
		R36,R37,R40,R41,R42,R43,				
		R44,R45,R47,R50,R63,R65,				
		R79,R110,R115,R116,R117,				
		R120,R137				
136	1	R5	33	sm/r_0805		
137	7	R6,R8,R11,R15,R26,R27,		22	sm/r_0805	
		R28				
138	1	R10	1K	sm/r_0805		
139	10	R17,R22,R25,R29,R30,R31,		0	sm/r_0805	
		R125,R133,R139,R140				
140	4	R20,R21,R111,R114	4.7K	sm/r_0805		
141	1	R24	30k	sm/r_0805		
142	1	R32	5K1	sm/r_0805		
143	1	R33	3K3	sm/r_0805		
144	1	R34	10k	AX/RC05		
145	3	R38,R39,R85	27k	sm/r_0805		
146	3	R46,R134,R135	DONOTFIT	sm/r_0805		
147	2	R48,R51	22k	SM/R_0805		
148	8	R49,R80,R82,R83,R141,		47k	sm/r_0805	
		R142,R143,R144				
149	11	R52,R53,R54,R55,R56,R57,		30 k	sm/R_0805	
		R58,R59,R60,R61,R62				
150	1	R64	4K7	sm/R_0805		
151	1	R67	4.7 k	sm/r_0805		
152	1	R68	4.99 k	sm/r_0805		
153	1	R72	100	sm/r_0805		
154	2	R73,R74	8R2	sm/r_0805		
155	2	R75,R77	4R7	sm/r_0805		
156	2	R76,R78	10k	TRIMMER4X2.3_S		

157	3	R81,R84,R86	200	sm/r_0805		
158	4	R87,R88,R89,R90	10M	sm/r_0805		
159	1	R91	47K	sm/r_0805_S		
160	1	R92	680			
161	1	R93	15k	AX/RC07		
162	1	R94	2.7K			
163	1	R95	10			
164	1	R96	3.9k	AX/RC07		
165	1	R97	4.7k	AX/RC07		
166	2	R98,R100	2.2			
167	1	R101	1K			
168	3	R102,R103,R106	4.7K			
169	1	R105	5.6K			
170	1	R107	3.3K			
171	1	R108	0			
172	1	R109	2K2	SM/R_0805		
173	6	R112,R113,R118,R119,R129,	270	sm/r_0805		
		R130				
174	2	R121,R122	NOT FIT	sm/r_0805		
175	1	R123	100k	sm/r_0805		
176	1	R124	10K	VRES36		
177	2	R126,R132	390	sm/r_0805		
178	1	R127	1K5	sm/r_0805		
179	1	R128	220	sm/r_0805		
180	1	R131	390	AX/RC05		
181	1	R136	33	sm/C_0805		
182	1	R138	300	sm/r_0805		
183	1	SW1	BOOT_1	3sip100_S		
184	1	SW2	BOOT_0	3sip100_S		
185	1	SW3	LCD Select	pulse2smd		
186	1	SW4	BOOT_EN	3sip100_S		
187	1	SW5	MOMENTARY	pulse2smd		
188	1	SW7	SW7	3sip100_S		
189	1	SW8	SW8	3sip100_S		
190	3	SW9,SW10,SW11	SW15	3sip100_S		
191	2	SW12,SW26	SW12	3sip100_S		
192	4	SW13,SW14,SW15,SW16	SW KEY-YM061	2SIP100		
193	1	SW17	CLKIN	2sip100		
194	1	SW18	ICCDATA	2sip100		
195	1	SW19	ICCCLK	2sip100		
196	1	SW20	RST	2SIP100		
197	1	SW21	SW PUSHBUTTON	pulse2smd		
198	1	SW22	Rst	PULS2SMD		
199	3	SW23,SW24,SW25	SW15	3sip100		
200	1	SW100	SW MAG-SPDT	3sip100_S		
201	1	TP1	TP1	TESTPOINT_S		
202	1	TP2	TP2	TESTPOINT_S		
203	1	TP3	TP3	TESTPOINT_S		
204	1	TP4	TP4	TESTPOINT_S		
205	1	TP5	Rst	TESTPOINT		
206	1	T1	E2023	soj.050/16/w.370/1.500		
207	1	U1	STR710FZ2T6	QUAD.50M/144/WG22.00		
208	1	U2	74LCX14TTR	SOG.65M/16/WG8.20/L6.99		
209	10	U3,U4,U5,U6,U7,U11,U12,	ESDA6V1-5W6	SM/SOT323-6L		
		U15,U16,U17				
210	1	U8	M74HC08TTR	SOG.65M/14/WG6.20/L5.35_S		
211	1	U9	M28W320CB90N6	SOG.50M/48/WG20.20/L14.60_S		
212	1	U10	ST2378ETTR	SOG.65M/20/WG6.60/L6.98_S		
213	1	U14	M95010WDW6T	sog.65m/8/wg8.20/13.80		
214	1	U18	M74HC4852TTR	SOG.65M/16/WG8.20/L6.99		
215	1	XP1	RS-423-4128	RJ45MOLEX_S		

216	1	Y2	16MHz 471-9376	OSC_4PIN_S
217	1	Y3	32.768Khz 472-0887	quarzosmd4pin_S
218	1	Y4	48MHz OSC_4PIN_S	
219	1	ZQ1	20Mhz 472-0584	quarzosmd_S