

Designator	Description	Comment	Footprint	Value	Qty
C1, C2	Capacitor	Cap 10pF	1608[0603]	10pF	2
C4, C5, C19, C20	Capacitor	Cap 15pF	1608[0603]	15pF	4
C6	Capacitor	Cap 33pF	1608[0603]	33pF	1
C8, C9, C10, C11, C13, C14, C15, C23, C34, C35	Capacitor	Cap 100nF	1608[0603]	100nF	10
C12, C21, C22, C40	Capacitor	Cap 10uF	1608[0603]	10uF	4
C16	Polarized Capacitor (Tantal)	Tantal	Tantal_D	470uF, 6V3	1
C18	Polarized Capacitor (Tantal)	Tantal	Tantal_D	100uF, 6V3	1
C24, C25, C29, C30, C36, C37	Capacitor	Cap 68pF	1608[0603]	68pF, NPO, <2%	6
C26, C27, C28	Capacitor	Cap 15pF	1608[0603]	15pF, NPO, 5%	3
C31	Capacitor	Cap 100nF	1608[0603]	100nF, X7R, 5%	1
C32	Capacitor	Cap 1nF	1608[0603]	1nF, X7R	1
C33	Capacitor	Cap 10nF	1608[0603]	10nF, X7R	1
C38, C39	Capacitor	Cap	1608[0603]	NC	2
D1	Transient Voltage Supressor	Schottky	SOT23-3 (D)	30V, 500mA	1
D2	LED lighttube angle	lighttube with 2 LED	LEDlighttube_angle		1
LED1	LED GREEN	green	0805	green	1
LED2	LED RED	red	0805	red	1
D8	Zener-Diode 1SMB5919BT3G	Z-Diode	SMB	5V6	1
J2	USB 1.1/USB 2.0, Right Angle, SMT, B Type MINI, Receptacle, 5 Position	USB-B-MINI	USB-B-MINI		1
L1, L2, L3, L6, L8	Inductor	Ferrite Bead	2012[0805]	100MHz, 1A, 39Ohm	5
L4, L5	Inductor	Inductor Coil	3225[1210]	1uH, 400mA, 5%, Qmin=30	2
MP1, MP2, MP3, MP4	Mounting point	M3 (3.2mm/7mm)	TH3.2MM-7		4
P1	Header, 4-Pin, 2.54mm	SAM-BA	HDR1X4		1
P2	Header, 10-Pin, Dual row, 2.54mm	JTAG 10X2	HDR2x10G_SMD2.54	NC	1
P3	Header, 5-Pin, 2.54mm	ANALOG_IN	HDR1x5_pol	NC	1
P4	TTL-232R-3V3 6 way header Pin Out, 2.54mm	RS232_CMOS	HDR1X6		1
P5	U.FL-R Connector	HF_AUXOUT	U.FL-R-SMT		1
P6	U.FL-R Connector	HF_MFOUT	U.FL-R-SMT		1
P7	U.FL-R Connector	HF_TRIGGER	U.FL-R-SMT		1
P8	Header, 3-Pin, 2.54mm	EXT_ANTENNA	HDR1x3_pol		1
P10	Reset-Taster	BOOTLOADER	Taster9312_LSG		1

P14	Header, 4-Pin, 2.54mm	I2C	HDR1X4	NC	1
Q1, Q2	NPN General-purpose Transistor	BC847	SOT23-3 (T)	45V, 100mA	2
R1, R2	Resistor	Res 27R	1608[0603]	27R	2
R3, R9	Resistor	Res 1K5	1608[0603]	1K5	2
R4	Resistor	Res 47K	1608[0603]	47K	1
R6, R21, R22, R23, R24, R25	Resistor	Res 4K7	1608[0603]	4K7	6
R7	Resistor	Res 1K2	1608[0603]	1K2	1
R8	Resistor	Res 820R	1608[0603]	820R	1
R10	Resistor	Res 50R	1608[0603]	50R	1
R11	Resistor	Res	1608[0603]	NC	1
R12	Resistor	Res 100R	1608[0603]	100R	1
R13, R14	Resistor	Res 150	1608[0603]	150R	2
R15, R16	Resistor	Res 0R	1608[0603]	0R	2
R20	Isolated Resistor Network, 4 resistors	Res Array	Res 1206	4K7	1
T1, T2, T3, T4, T5, T7	Testpad	Testpad	TESTPAD		6
T6	Testpad	Soldering nail 1.0mm	TH1.0MM		1
U1	AT91 ARM 32-bit Microcontroller	AT91SAM7S128	LQFP64		1
U2	Multiple Protocol Contactless Reader IC	CL RC632	SO32		1
U3	LM1117-3.3V, 800mA Low-Dropout Linear Regulator	LM1117	SOT-223	3V3	1
U4	Operational Amplifier (up to 7.5V)	OPA354	SOT23-5		1
X1	Crystal Oscillator	HCM49 SMD	49USMXL	18.432 MHz, 18pF	1
X2	Crystal Oscillator	HC49 US SMD	49USMXL	13.56MHz, 10pF	1