









Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF	Capacitor (Semiconductor SIM Model)	C1, C2, C8, C9, C10, C11, C16, C17, C20, C21, C22, C24, C25	SMD0603	Cap Semi	13
10uF	Capacitor (Semiconductor SIM Model)	C3, C4, C19, C23	SMD0603	Cap Semi	4
47uF	Capacitor	C5	TAJ_CLASS_C	Cap2	1
1uF	Capacitor (Semiconductor SIM Model)	C6	SMD0603	Cap Semi	1
0.01uF	Capacitor (Semiconductor SIM Model)	C7, C15	SMD0603	Cap Semi	2
10nF	Capacitor (Semiconductor SIM Model)	C12	SMD0603	Cap	1
6pF	Capacitor (Semiconductor SIM Model)	C13, C14	SMD0603	Cap Semi	2
100nF	Capacitor (Semiconductor SIM Model)	C18	SMD0603	Cap	1
Diode	Default Diode	D1	SMB_DIODE_B130LB	Diode	1
LED0	Typical INFRARED GaAs LED	D2, D3, D4, D6, D7, D8	SMD0603_LED	LED0	6
1N4148	Diode	D5	1N4148	Diode 1N4148	1
Pro/Run SW	Program/Run Switch	J1	SLIDE_SW_3P	Pro/Run SW	1
MicroUSB_B		J2	micro_usb_molex_105017-0001	MicroUSB_B	1
ISP		J3	ISP	ISP	1
SWD		J4	ISP	SWD	1
40PIN		J6	40PIN	2x20_header	1
YCL_RJ45_Jack	Connector	J8	YCL_RJ45_Jack	YCL_RJ45_Jack	1
Bead	Inductor	L1, L2, L3	SMD0603	Inductor	3
4.7K	Semiconductor Resistor	R1, R8, R9, R10	SMD0603	Res	4
1K	Semiconductor Resistor	R2, R3, R4, R7, R27, R28	SMD0603	Res Semi	6
22R	Semiconductor Resistor	R5, R6	SMD0603	Res	2
49.9R	Semiconductor Resistor	R11, R12, R13, R14	SMD0603	Res Semi	4
10k	Semiconductor Resistor	R15	SMD0603	Res Semi	1
100K	Semiconductor Resistor	R16	SMD0603	Res	1
1M	Semiconductor Resistor	R17	SMD0603	Res Semi	1
2.2k	Semiconductor Resistor	R18, R20, R22, R23, R24, R25, R26	SMD0603	Res Semi	7
110R	Semiconductor Resistor	R19, R21	SMD0603	Res Semi	2
4.87k	Semiconductor Resistor	R29	SMD0603	Res Semi	1
SW-PB	Switch	S1	Button	SW-PB	1
NCP1117_3V3	IC REG 3.3V 1A DPAC	U1	SOT-223-2	NCP1117_3V3	1
ATMEGA16U4-MU	Integrated Circuit	U2	QFN50P700X700X100-45N-D	ATMEGA16U4-MU	1
W25Q128JVSQ	Integrated Circuit	U3	SOIC127P790X216-8N	W25Q128JVSQ	1
ATSAME54P20A-AF	Integrated Circuit	U4	QFP40P1600X1600X120-128N	ATSAME54P20A-AF	1
DP83848CVV_NOPB	Ethernet phy	U5	QFP50P900X900X160-48N	DP83848CVV	1
ECS-3225MV-160-CN-TR	Crystal or Oscillator	Y1	OSC3225	ECS-3225MV-160-CN-TR	1
32.768K	Crystal or Oscillator	Y2	ECS327634RTR	ECS-.327-6-34R-TR	1
ECS-3225MV-120-CN-TR3	Crystal or Oscillator	Y3	OSC3225	ECS-3225MV-120-CN-TR3	1
ASE-50.000MHZ-LC-T	Crystal or Oscillator	Y4	OSC3225	ASE-50.000MHZ-LC-T	1