

Item	Quantity	Reference	Part
------	----------	-----------	------

1	2	C1,C2	22pF(ceramic disc)
---	---	-------	--------------------



2	1	C3	0.1uF(ceramic disc)
---	---	----	---------------------



3	1	C4	4.7uF, 16V
---	---	----	------------



4	1	D1	LED(RED)
5	1	D2	LED(GREEN)



6	2	D4,D3	3.6V Zener Diode
---	---	-------	------------------



7	3	JP1,JP2,JP3	2-pin Jumper Cap
---	---	-------------	------------------



10	1	R1	10k (1/4W)
11	2	R4,R3	68R (1/4W)
12	1	R5	2.2k (1/4W)
13	2	R6,R7	1k (1/4W)

14	1	U1	ATMEGA8L/ ATMEGA8A
----	---	----	-----------------------

15	1	X1	5x2 Box Connector(Male)
----	---	----	-------------------------



16	1	X2	USB B-Type(Female)
----	---	----	--------------------



17	1	Y1	12 MHz Quartz Crystal
----	---	----	-----------------------

