

# OpenSprinkler Controller (hw v1.0) Assembly Kit

See instructions at: <http://opensprinkler.com>

Also check the F.A.Q. page for known issues and solutions

## Parts List

Name	Type	Value	Q.	Note	Name	Type	Value	Q.	Note
B0	Tactile	FSM4JH	1		RN2-RN3	Resistor net	RN470x4	2	4 isolated
B1-B3	Tactile	FSMRA4JH	3	Right angled	T1-T5	Triac	LX807DE	5	>=24v AC
C1	Capacitor	100u	1	>=50v	J1	Jack	Power jack	1	>=50v
C2-C3	Capacitor	220u	2	>=10v	J2	Switch	Slide Switch	1	
C10	Capacitor	10u	1	>=10v	JP2	Header	1x6 pin header	1	FTDI pin header
C4-C6,C8,C9	Capacitor	0.1μ	5		JP3 (M)	Header	1x16 pin header	1	LCD pin header (M)
<i>(Note: C7 is replaced by a 10K resistor)</i>					JP3 (F)	Header	1x16 pin header	1	LCD pin header (F)
C11-C12	Capacitor	18pf	2		Jo, S1-S5	Term. Block	5mm pitch term. block	6	
D1	Diode	1N4001	1	Half-wave reftifier	X1	Resonator	8MHz	1	
D2	Diode	1N5819 (or SB160)	1	Schottky	X2	Crystal	25MHz	1	18p load capacitance
D3	Diode	1N4148	1	Forward bias ~0.65v	X3	Jack	J000061NL	1	RJ45 with magnatics
IC1	IC	LM2574N	1	Sswitching regulator	LCD	LCD	16x2 LCD	1	Lumex 5v LCD
IC2	IC	MCP1700-33	1	Linear regulator		Screw	#4-40 x 3/16	4	
IC3	IC	24LC128P	1	16KB eeprom		IC Socket	two 2x4, one 2x8,and two 2x14	5	
IC4	IC	74HC595N	1	Shift register		Case	Serpac WMO32RC	1	Clear-top case
IC5	IC	ATMEGA328	1	MCU		PCB		1	
IC7	IC	ENC28J60SP	1	Ethernet controller					
L1	Inductor	1000uH	1	>=0.2A					
L2	Bead	BL01RN1A	1	Ferrite Bead					
LED	LED	Green	1	Power indicator					
R1	Resistor	1K	1						
R2, C7	Resistor	10K	2						
R3-R6	Resistor	49.9	4						
R7	Resistor	2.32K	1						
RN1	Resistor net	RN1Kx4	1	4 isolated					