

Bill of Materials

Component	Datasheet	Part No.	Price	Quantity	Total
Arduino Uno R3	https://docs.arduino.cc/static/9af24ef3fb006667482b12d55ab2c282/A000066-datasheet.pdf	ATmega328p	\$26.99	1	\$26.99
Wi-Fi Module	https://www.espressif.com/sites/default/files/documentation/0a-esp8266ex_datasheet_en.pdf	ESP8266 (ESP-01)	\$2.99	1	\$2.99
Water Flow Sensor	https://5.imimg.com/data5/GL/CJ/MY-1833510/yf-g1-dn25-1inch-water-flow-sensor.pdf	YF-G1	\$25.80	1	\$25.80
HMI (LCD Display & Buttons)	https://media.digikey.com/pdf/Data%20Sheets/Olimex%20LTD%20PDFs/SHIELD-LCD16x2_Web.pdf	SHIELD-LCD16X2	\$19.19	1	\$19.19
PCB Manufacturing	https://oshpark.com/	OSH PARK	\$14.71	1	\$14.71
1K Resistor	https://www.seielect.com/Catalog/SEI-RNCP.pdf	RNCP0603FTD1K00	\$0.10	1	\$0.10
2.2K Resistor	https://www.susumu.co.jp/common/pdf/n_catalog_partition05_en.pdf	RG1608P-222-B-T5	\$0.14	1	\$0.14
10k Resistor	https://www.seielect.com/Catalog/SEI-RNCP.pdf	RNCP0603FTD10K0	\$0.10	3	\$0.30
Tactile Switch		1568-COM-00097-ND	\$0.45	3	\$1.35
3D Printed Enclosure		PLA Filament	\$3.45	1	\$3.45
Power Supply PCB Manufacturing	https://oshpark.com/	OSH PARK	\$7.82	1	\$7.82
DC-DC Stepdown	https://www.ti.com/general/docs/suppproductinfo.tsp?distId=10&gotoUrl=https%3A%2F%2Fwww.ti.com%2Flit%2Fgpn%2Ftps54232	TPS54232	\$1.73	1	\$1.73
10uF Capacitor	https://media.digikey.com/pdf/Data%20Sheets/Samsung%20PDFs/CL10A106MQ8NNNC_Spec.pdf	CL10A106MQ8NNNC	\$0.11	1	\$0.11
22uF Capacitor	https://media.digikey.com/pdf/Data%20Sheets/Samsung%20PDFs/CL10A226MP8NUNC_Spec.pdf	CL10A226MP8NUNE	\$0.18	1	\$0.18
0.1uF Capacitor	https://media.digikey.com/pdf/Data%20Sheets/Samsung%20PDFs/CL03A104KQ3NNNC_SS.pdf	CL03A104KQ3NNNC	\$0.10	1	\$0.10
0.015uF Capacitor	http://www.passivecomponent.com/wp-content/uploads/datasheet/WTC_MLCC_General_Purpose.pdf	0603B153K500CT	\$0.10	1	\$0.10
680pF Capacitor	http://www.passivecomponent.com/wp-content/uploads/datasheet/WTC_MLCC_General_Purpose.pdf	0603B681K500CT	\$0.10	1	\$0.10
47pF Capacitor	https://www.johansondielectrics.com/downloads/emi-filter-and-decoupling-capacitors.pdf	EMCP500G470M1GVO01T	\$0.34	1	\$0.34
3.3uH Inductor	https://abracon.com/Magnetics/new/AIML-0603.pdf	AIML-0603-3R3K-T	\$0.10	1	\$0.10
10.2k Resistor	https://www.yageo.com/upload/media/product/productsearch/datasheet/rchip/PYu-RC_Group_51_RoHS_L_12.pdf	RC0603FR-0710K2L	\$0.10	1	\$0.10
4.75k Resistor	https://www.seielect.com/Catalog/SEI-RMCF_RMCP.pdf	RMCF0201FT4K75	\$0.10	1	\$0.10
150k Resistor	http://www.passivecomponent.com/wp-content/uploads/chipR/ASC_WR.pdf	WR06X1503FTL	\$0.16	1	\$0.16
48.7k Resistor	https://www.yageo.com/upload/media/product/productsearch/datasheet/rchip/PYu-RC_Group_51_RoHS_L_12.pdf	RC0603FR-0748K7L	\$0.10	1	\$0.10
17.4k Resistor	https://www.yageo.com/upload/media/product/productsearch/datasheet/rchip/PYu-RC_Group_51_RoHS_L_12.pdf	RC0603FR-0717K4L	\$0.10	1	\$0.10
				Total Spent:	\$106.16
				Total Budget:	\$300
				Allowance:	\$193.84