

ROV Control Unit [http://aquaticus.info/control\\_unit](http://aquaticus.info/control_unit)

Bill of Material

Part	Value	Description
C1	22pF	CAPACITOR
C2	22pF	CAPACITOR
C3	1uF	POLARIZED CAPACITOR
C4	22nF	CAPACITOR
C5	1uF	POLARIZED CAPACITOR
C6	1uF	POLARIZED CAPACITOR
C7	1uF	POLARIZED CAPACITOR
C8	100uF	POLARIZED CAPACITOR
C9	100nF	CAPACITOR
C10	100uF	POLARIZED CAPACITOR
C11	100nF	CAPACITOR
C12	100nF	CAPACITOR
C13	100nF	CAPACITOR
C14	0.1uF	POLARIZED CAPACITOR
DB1	DB9/F	Female SUB-D
DB2	DB9/F	Female SUB-D
IC1	MEGA16-P	DIL40 MICROCONTROLLER
IC2	MAX485	DIL08 RS-485 Transceiver
IC3	MAX232	DIL16 RS232 TRANSEIVER
IC4	7805T	TO220 VOLTAGE REGULATOR
JP1		JUMPER
JP2		JUMPER
JP3		JUMPER
JP4	AVR-ISP-10	AVR ISP-10 Serial Programming Header
JP5	JTAG	2X05 PIN HEADER
JP6		1X01 PIN HEADER
JP7		1X01 PIN HEADER
LED1		3MM RED LED
Q1	14.7456 MHz	CRYSTAL
R1	120	RESISTOR
R2	120	RESISTOR
R3	120	RESISTOR
R4	10k	RESISTOR
R5	10k	RESISTOR
R6	100k	RESISTOR
R7	1M	RESISTOR
R8	100k	RESISTOR
R9	1M	RESISTOR
R10	120	RESISTOR
R11	10k	RESISTOR
R12	2.2k	RESISTOR
R13	4.7k	RESISTOR
R14	1k	RESISTOR
SL1	ADC0	M04 AMP QUICK CONNECTOR
SL2	ADC1	M04 AMP QUICK CONNECTOR
SL3	ADC2	M04 AMP QUICK CONNECTOR
SL4	LEAK1	M02 AMP QUICK CONNECTOR
SL5	LEAK2	M02 AMP QUICK CONNECTOR
SL6	I2C	M04 AMP QUICK CONNECTOR
SL7	I2C	M04 AMP QUICK CONNECTOR
SL8	I2C	M04 AMP QUICK CONNECTOR
SL9	I2C	M04 AMP QUICK CONNECTOR
SL10	I2C	M04 AMP QUICK CONNECTOR
SL12	1WIRE	M03 AMP QUICK CONNECTOR
SL13	CAMERA	M03 AMP QUICK CONNECTOR
SV1		1X15 PIN HEADER
T1	BC546	TO92-EBC NPN Transistor
T2	BC546	TO92-EBC NPN Transistor
X1	RS485	AK500/2 CONNECTOR
X2	POWER	AK300/2 CONNECTOR