

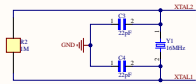
## RESET PART



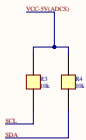
## VCC & VREF PART



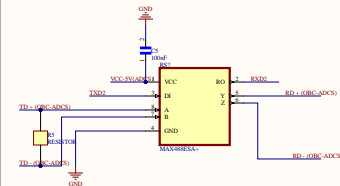
## Crystal Part



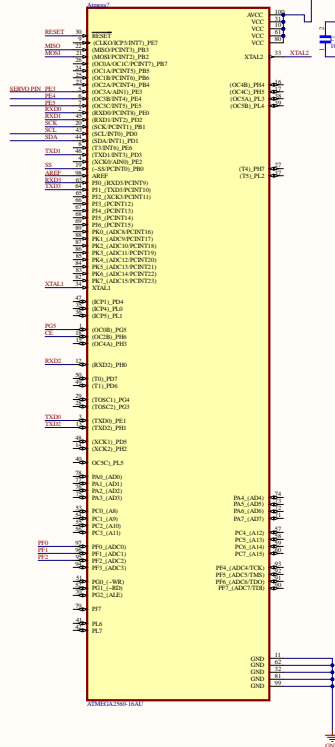
## I2C Pull-Up Resistor Part



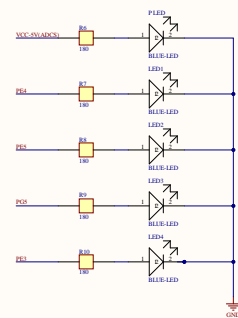
## UART2-MAX488 Part



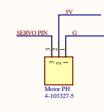
## Micro-Controller Part



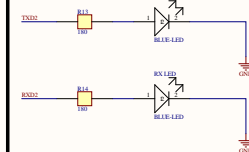
## Test & Power LEDs



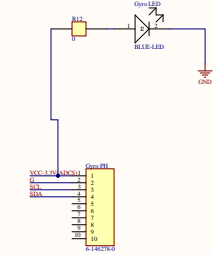
## Motor VCC-GND-PIN



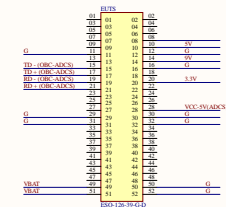
## TX & RX LEDs



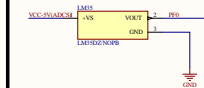
## Gyro Sensor



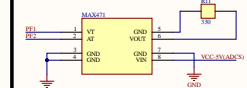
## EUTS & Signal Part



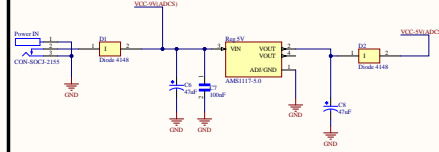
## LM35 Temperature Sensor



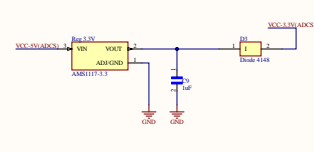
## Current & Voltage Sensor

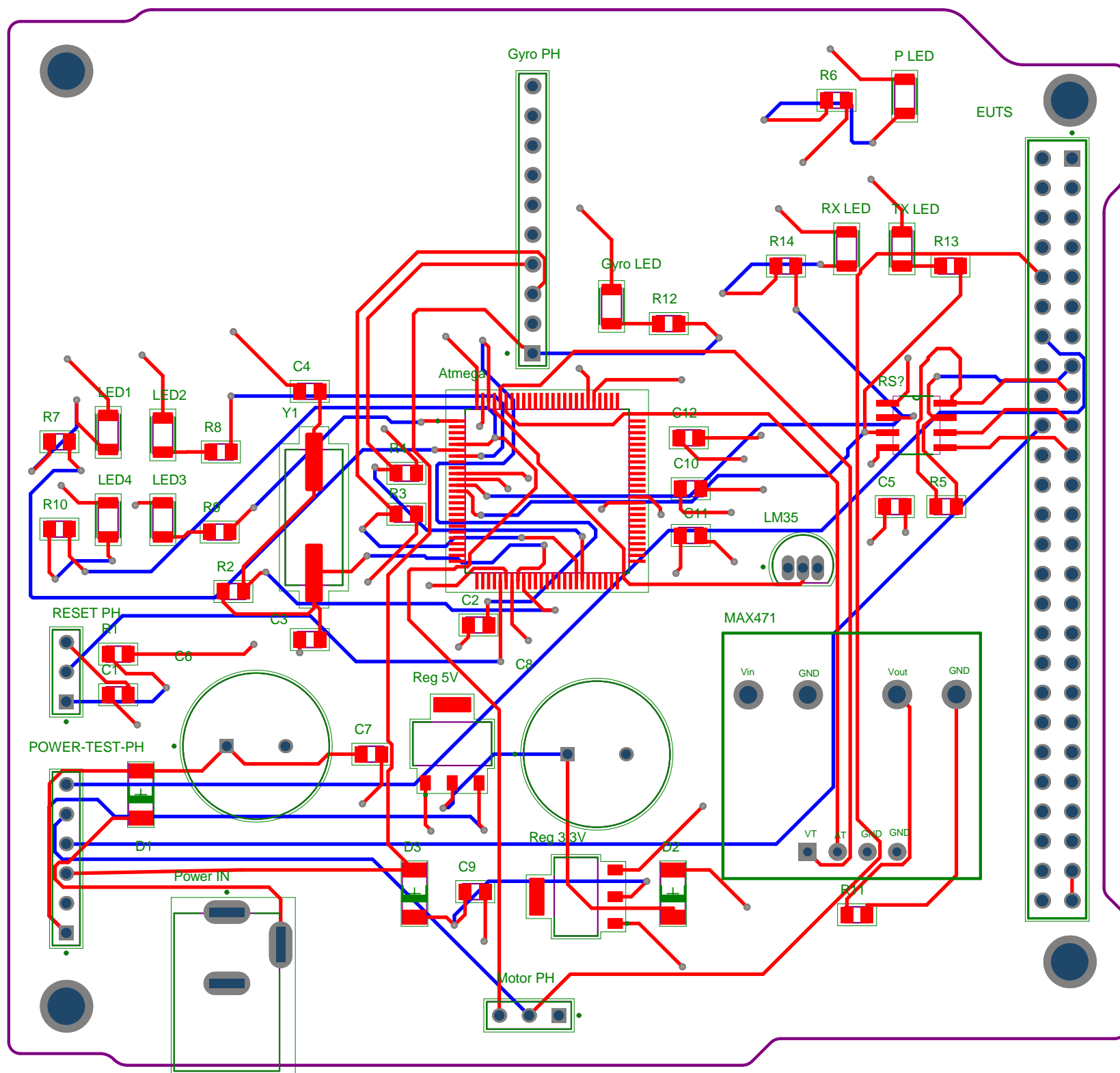


## DC Input & 5V Regulator Part



## 3.3V Regulator Part





Comment	Description	Designator	Footprint	LibRef	Quantity
ATMEGA2560-16AU		Atmega?	QFP50P1600X1600X120-100N	ATMEGA2560-16AU	1
22pF	CAP CER 10000PF 50V 0805	C1, C3, C4	CAPC2012X95N	UMK212SD103KD-T	3
100nF	CAP CER 10000PF 50V 0805	C2, C5, C7, C10, C11, C12	CAPC2012X95N	UMK212SD103KD-T	6
47uF	Aluminum Electrolytic Capacitors - Radial Leaded 47uF 250volts AEC-Q200	C6, C8	CAPPRD500W60D1250H2500	EEUEB2E470B	2
1uF	CAP CER 10000PF 50V 0805	C9	CAPC2012X95N	UMK212SD103KD-T	1
Diode 4148		D1, D2, D3	Diode_4148	Diode 4148	3
ESQ-126-39-G-D	52 Position Elevated Socket Connector Through Hole	EUTS	SAMTEC_ESQ-126-39-G-D	ESQ-126-39-G-D	1
BLUE-LED	LED Blue 470nm LED Indication 3.3V	Gyro LED, LED1, LED2, LED3, LED4, P LED, RX LED, TX LED	RESC3015X65	LTST-C150TBKT	8
6-146278-0	10 MODII HDR SRST B/A .100CL	Gyro PH	TE_6-146278-0	6-146278-0	1
LM35DZ/NOPB	Temperature Sensor Analog, Local 0Â°C ~ 100Â°C 10mV/Â°C TO-92-3	LM35	TO92127P521H735-3	LM35DZ/NOPB	1
Current & Voltage Sensor	MAX471 Voltage And Current Sensor Module Consume Voltage Load Detection Module	MAX471	PCBComponent_1	MAX471?	1
4-103327-5	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole Carton	Motor PH, RESET PH	TE_4-103327-5	4-103327-5	2
CON-SOCJ-2155	DC Power Connectors Power Jack/Connector 2.1mm x 5.5mm	Power IN	GRAVITECH_CON-SOCJ-2155	CON-SOCJ-2155	1
5-146285-6	Connector Header Through Hole 6 position 0.100 (2.54mm)	POWER-TEST-PH	TE_5-146285-6	5-146285-6	1
10K		R1, R3, R4	CAPC2012X95N	RESISTOR	3
1M		R2	CAPC2012X95N	RESISTOR	1
RESISTOR		R5	CAPC2012X95N	RESISTOR	1
180		R6, R7, R8, R9, R10, R13, R14	CAPC2012X95N	RESISTOR	7
330		R11	CAPC2012X95N	RESISTOR	1
0		R12	CAPC2012X95N	RESISTOR	1
AMS1117-3.3	Sot223/Pkg 1-Amp 3.3-Volt Low Drop Out Voltage Regulator	Reg 3.3V	SOT229P700X180-4N	AMS1117-3.3	1
AMS1117-5.0	Sot223/Pkg 1-Amp 5-Volt Low Drop Out Voltage Regulator	Reg 5V	SOT229P700X180-4N	AMS1117-5.0	1
MAX488ESA+	1/1 Transceiver Full RS422, RS485 8-SOIC	RS?	SOIC127P600X175-8N	MAX488ESA+	1
16MHz		Y1	XTAL1140X490X430N	Component_1	1