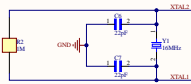


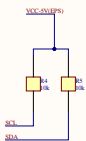
RESET PART



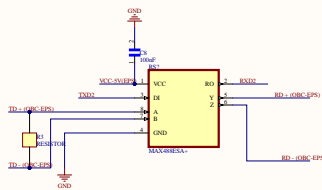
VCC & VREF PART



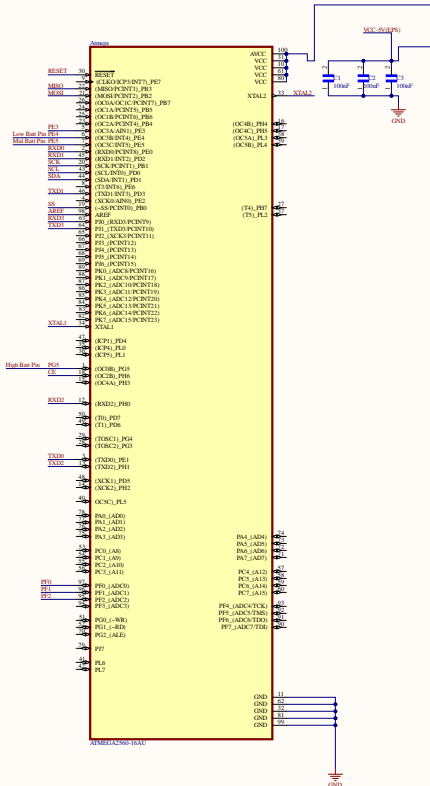
Crystal Part



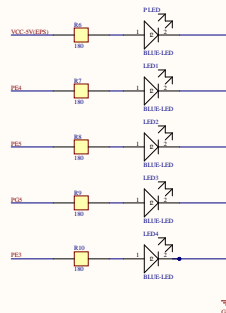
I2C Pull-Up Resistor Part



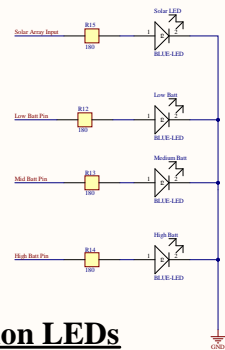
UART2-MAX488 Part



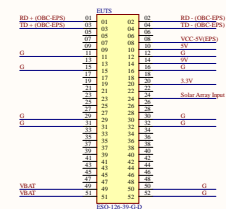
Micro-Controller Part



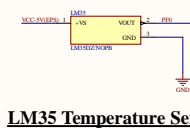
Test & Power LEDs



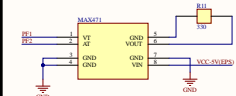
Indication LEDs



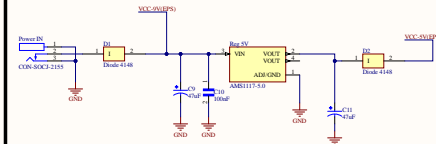
EUTS & Signal Part



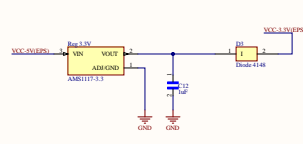
LM35 Temperature Sensor



Current & Voltage Sensor

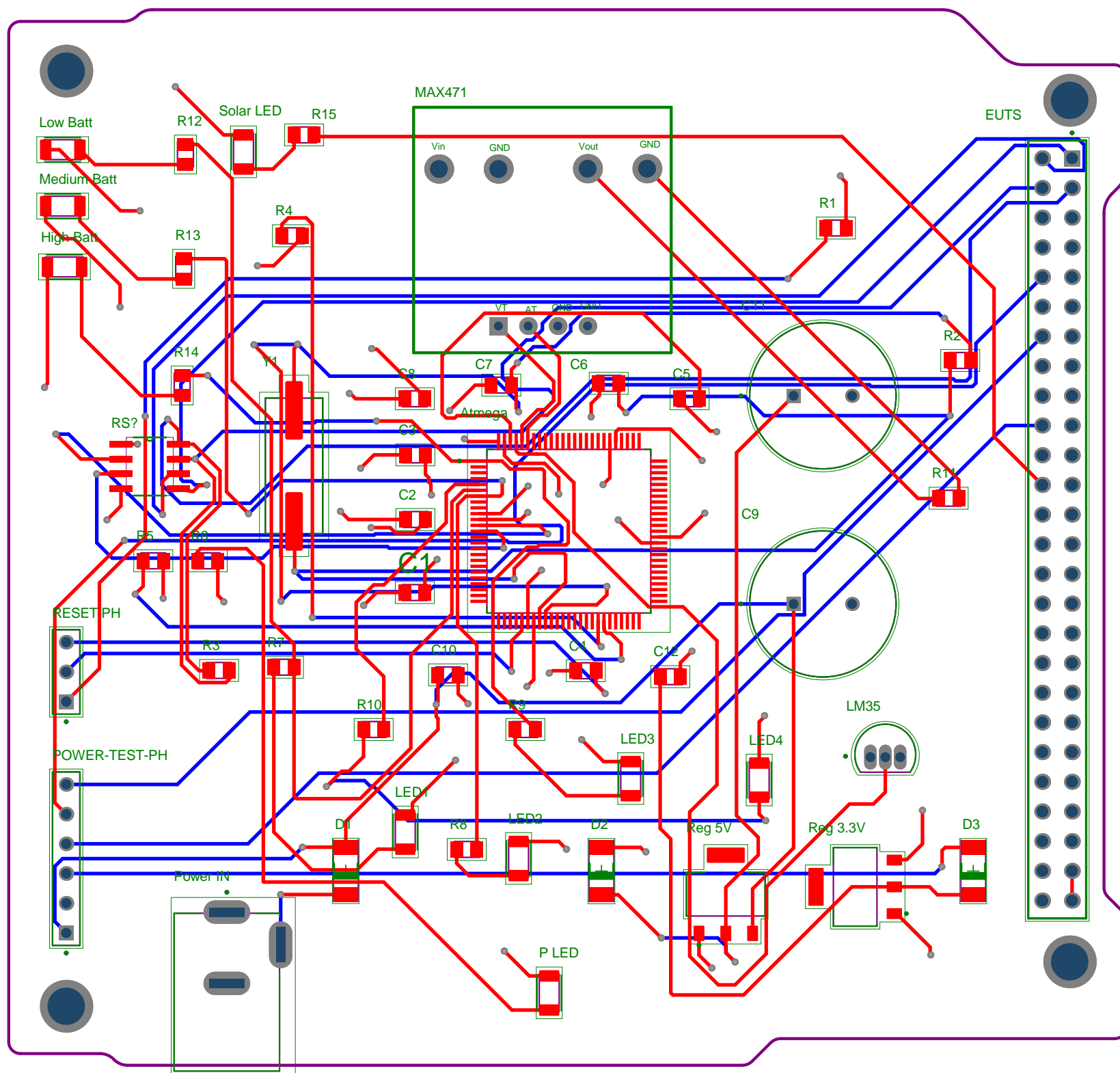


DC Input & 5V Regulator Part



3.3V Regulator Part

Rev	Number	Revision
A1	1	1
A2	2	2
A3	3	3
A4	4	4
A5	5	5
A6	6	6
A7	7	7
A8	8	8
A9	9	9
A10	10	10
A11	11	11
A12	12	12



Comment	Description	Designator	Footprint	LibRef	Quantity
ATMEGA2560-16AU		Atmega	QFP50P1600X1600X120-100N	ATMEGA2560-16AU	1
100nF	CAP CER 10000PF 50V 0805	C1, C2, C3, C5, C8, C10	CAPC2012X95N	UMK212SD103KD-T	6
22pF	CAP CER 10000PF 50V 0805	C4, C6, C7	CAPC2012X95N	UMK212SD103KD-T	3
47uF	Aluminum Electrolytic Capacitors - Radial Leaded 47uF 250volts AEC-Q200	C9, C11	CAPPRD500W60D1250H2500	EEUEB2E470B	2
1uF	CAP CER 10000PF 50V 0805	C12	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	High Batt, LED1, LED2, LED3, LED4, Low Batt, Medium Batt, P LED, Solar LED	RESC3015X65	LTST-C150TBKT	9
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
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, R4, R5	CAPC2012X95N	RESISTOR	3
1M		R2	CAPC2012X95N	RESISTOR	1
RESISTOR		R3	CAPC2012X95N	RESISTOR	1
180		R6, R7, R8, R9, R10, R12, R13, R14, R15	CAPC2012X95N	RESISTOR	9
330		R11	CAPC2012X95N	RESISTOR	1
AMS1117-3.3	Sot223/Pkg 1-Amp 3.3-Volt Low Drop Out Voltage Regulatator	Reg 3.3V	SOT229P700X180-4N	AMS1117-3.3	1
AMS1117-5.0	Sot223/Pkg 1-Amp 5-Volt Low Drop Out Voltage Regulatator	Reg 5V	SOT229P700X180-4N	AMS1117-5.0	1
4-103327-5	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole Carton	RESET PH	TE_4-103327-5	4-103327-5	1
MAX488ESA+	1/1 Transceiver Full RS422, RS485 8-SOIC	RS?	SOIC127P600X175-8N	MAX488ESA+	1
16MHz		Y1	XTAL1140X490X430N	Component_1	1