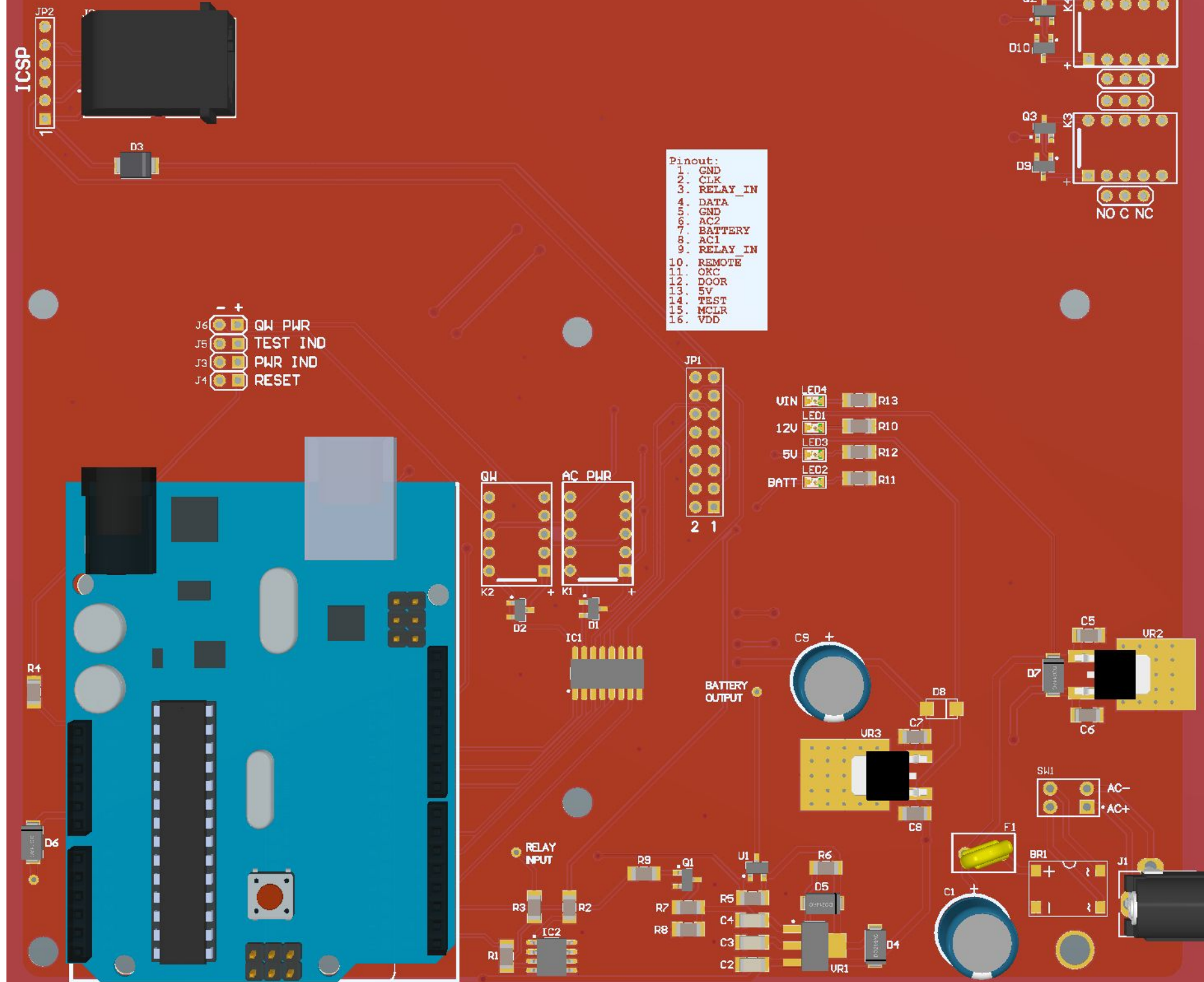


Pinout:
1. GND
2. CLK
3. RELAY_IN
4. DATA
5. GND
6. AC2
7. BATTERY
8. AC1
9. RELAY_IN
10. REMOTE
11. OKC
12. DOOR
13. 5V
14. TEST
15. MCLR
16. VDD

J6 QW PWR
J5 TEST IND
J3 PWR IND
J4 RESET

NO C NC
NO C NC



Designator	Quantity	Value	MPN	Description	Comment	Manufacturer	PackageReference
BR1	1	1A SMT Bridge Rectifier		1A SMT Bridge Rectifier	BRIDGE - SMT		
C1	1	220uF		Capacitor TO - 200 SPACING	Capacitor - Thru-Hole		
C2, C6, C7	3	0.1uF		1206 Ceramic Capacitor	1206 Capacitor		1206
C3, C4	2	1uF		1206 Ceramic Capacitor	1206 Capacitor		1206
C5, C8	2	0.33uF		1206 Ceramic Capacitor	1206 Capacitor		1206
C9	1	100uF		Capacitor TO - 200 SPACING	Capacitor - Thru-Hole		
D1, D2, D10	3	Diode 1N5400	B5819W	1N5400, Diode, SMD	Diode SMT, 1N4002		
D3	1	SS12	SS12	Schottky Diode, SMD	SS12		SMA
D4, D5, D6, D7, D8, D9	6	1N4002	B5819W	Diode, SMD	1N4002		
F1	1	1A fuse		FUSE_200	THERMAL FUSE 1A		
IC1	1	ULN2003A	ULN2003A	ULN2003	ULN2003A		
IC2	1	ILD207T	ILD207T	DUAL OPTO ISOLATOR	OPTO ISOLATOR		
J1	1	KLD-0202_2	DC-005	DC POWER PLUG	DC Power Jack		
J2	1	TECO-5520470-3_V	TECO-5520470-3_V	6 Position Modular Jack Connector	6P MOD JACK	Tetco	
J3, J4, J5, J6	4	JUMPER_2		JUMPER_2	PWR IND, RESET, TEST IND, QW PWR		
J7, J8, J9, J10	4	JMP_3PIN		JMP_3PIN	JMP_3PIN		
JP1	1	8x2_HEADER		Ribbon Cable Connection	8x2_HEADER		
JP2	1	ICSP	P125-1106A1BS116A1	DIP-BLACK-MALE-HEADER(6P-2.54)	ICSP		
K1, K2, K3, K4	4	AZ850-5	AZ850-5	AZ850-5	AC PWR, QW, RELAY1, RELAY2	Zetler	
LED1, LED2, LED3, LED4	4	LED-0805	17-215SURC/S530-A2/TR8	12V Power Indicator, Battery Power Indicator, 5V Power Indicator, Power Input Indicator	12V, BATT, 5V, VIN		0805
P1	1	Arduino Uno		Arduino Uno	Arduino Uno	Arduino.cc	
P2	1	Metro Mini 328	2590	Adafruit METRO Mini 328 rev A	Metro Mini 328	Adafruit Industries	
Q1	1	MMBT2222	MMBT2222	NPN Bipolar Transistor	MMBT2222		SOT-23
Q2, Q3	2	2N7002	2N7002	N-Channel Enhancement Mode FET	2N7002		SOT-23
R1, R5	2	20K		RESISTOR, SMD, 1206	Resistor		1206
R2	1	500R		RESISTOR, SMD, 1206	Resistor		1206
R3	1	100K		RESISTOR, SMD, 1206	Resistor		1206
R4, R9, R11, R12	4	1k		RESISTOR, SMD, 1206	Resistor		1206
R6	1	2K		RESISTOR, SMD, 1206	Resistor		1206
R7, R10, R13	3	2.2K		RESISTOR, SMD, 1206	Resistor		1206
R8	1	3.74K		RESISTOR, SMD, 1206	Resistor		1206
U1	1	DMG3415U	DMG3415U	MOSFET P-CHANNEL	MOSFET P-CHANNEL	Diodes, Inc.	SOT-23
VR1	1	LM317	LM317DCYR	Adjustable SMT Voltage Regulator	LM317DCYR	TI	SOT-23-4
VR2	1	MC7812CD2TG	MC7812CD2TG	SMT 12V Fixed Output Voltage Regulator	MC7812	ON Semi	DPAK
VR3	1	MC7805BDTRKG	MC7805BDTRKG	SMT 5V Linear Voltage Regulator	MC7805	ON Semi	DPAK-3